

Available online at www.sciencedirect.com





Journal of Ethnopharmacology 115 (2008) 387-408

www.elsevier.com/locate/jethpharm

Ethnobotanical survey of Akwa Ibom State of Nigeria

Kola' K. Ajibesin^{a,*}, Benjamin A. Ekpo^a, Danladi N. Bala^a, Etienne E. Essien^b, Saburi A. Adesanya^c

^a Department of Pharmacognosy & Natural Medicine, Faculty of Pharmacy, University of Uyo, Akwa Ibom, Nigeria

^b Department of Pharmaceutical & Medicinal Chemistry, Faculty of Pharmacy, University of Uyo, Akwa Ibom, Nigeria ^c Department of Pharmacognosy, Faculty of Pharmacy, Obafemi Awolowo University, Ile-Ife, Nigeria

Received 30 July 2006; received in revised form 3 October 2007; accepted 10 October 2007

Available online 23 October 2007

Abstract

Ethnopharmacological relevance: The medicinal plants employed in the ethnomedicine of Akwa Ibom State of Nigeria are studied. *Aim of the study:* The survey aims at identifying and documenting the plants used amongst the indigenes of Akwa Ibom State. *Materials and methods:* Using ethnobotanical survey list, information is gathered through personal interviews with traditional medical practitioners, community elders and patients.

Results: A total of 114 medicinal plant species representing 102 genera and 54 families employed in the traditional medical practice of the people of Akwa Ibom State, Nigeria are recorded from 930 homes. Ailments such as skin diseases, malaria, gonorrhoea and haemorrhoids are mostly treated with the medicinal plants. Details pertaining to the preparation and administration of plant drugs are provided.

Conclusions: The survey provides a veritable source of information for traditional medical practitioners and medicinal plant researchers. These medicinal plants may be incorporated into the healthcare delivery system of the country.

© 2007 Elsevier Ireland Ltd. All rights reserved.

Keywords: Medicinal plants; Akwa Ibom State; Nigeria

1. Introduction

Ethnobotanical survey has been found to be one of the reliable approaches to drug discovery (Fabricant and Farnsworth, 2001). Ethnomedical information from this approach can be gathered either from plants used in organized traditional medical system such as Ayurveda, Unani and traditional Chinese medicine (Bannerman et al., 1975; Bannerman, 1979), or from herbalism, folklore and shamanism which concentrate on an apprenticeship system of information passed to the next generation through a traditional healer or herbalist (Rastogi and Dhawan, 1982). This system of medicine is widely practiced in South America and Africa.

The World Health Organization (WHO) Traditional Medical Programme (Farnsworth et al., 1985) has provided the evidence that ethnomedical information can lead to valuable drug discovery. A total of 122 compounds, 80% of which were used for the

E-mail address: kay_ajib@yahoo.com (K.K. Ajibesin).

same or related ethnomedical purposes, were derived from 94 species of plants.

Several active compounds have been discovered from plants on the basis of ethnobotanical information, and used directly as patented drugs. Maprouneacin isolated from *Maprounnea africana* is used as an antidiabetic agent (Carney et al., 1999). Taxol obtained from *Taxus breviflora* is used as an antitumour drug (Samuelsson, 1992). Artemisinin, discovered from *Artemisia annua*, is used as a potent antimalarial compound against *Plasmodium* strains resistant to all known antimalarials (Klayman, 1993).

Some other plants have been reported to produce drugs that serve as leads for the next generation of drugs. For instance, the basic structural formula of verapamil, a synthetic drug used to treat hypertension, was derived from that of papaverine, a smooth muscle relaxant obtained from *Papaver somniferum*. Galegine, an active antihyperglycaemic agent, isolated from *Galega officinalis* L., the plant used ethnobotanically to treat diabetes, provided the lead for the synthesis of metformin and aroused interest in the synthesis of other biguanidine-type antidiabetic drugs (Fabricant and Farnsworth, 2001).

^{*} Corresponding author. Tel.: +234 8038937431.

^{0378-8741/\$ –} see front matter @ 2007 Elsevier Ireland Ltd. All rights reserved. doi:10.1016/j.jep.2007.10.021

One of the major advantages of choosing plants as the starting point in drug development through ethnobotanical survey is that the active constituents of such plants which have undergone long-term use by man are likely to be safer than the active compounds isolated from plants with no history of ethnomedical use (Fabricant and Farnsworth, 2001).

In Akwa Ibom State, ethnomedicine is an integral part of the people's culture. In fact, about 75% of the people rely on traditional medicine for health care delivery (Petters et al., 1994; Etukudo, 2000, 2003). Various medicinal plants are used to treat mild and severe diseases. Some work has been done on the flora and ethnobotany of the State (Etukudo, 2000, 2003), but there is no detailed information on the plants. For instance, the sources of the medicinal plants as well as the method of preparation are not given. However, some articles have given reports on the antimicrobial (Odoemena and Essien, 1995), nutritional (Isong and Idiong, 1997), antimalarial (Okokon et al., 2005) and toxic effects (Ajibesin et al., 2002) of some of the plants endemic in the State.

2. Study area

Akwa Ibom State is located within the south-eastern axis of Nigeria, flanked by Cross-River, Abia and Rivers States on the sandy deltaic coastal plain of the Guinea Coast. The State is bounded on the southern margin by the Atlantic Ocean (Petters et al., 1994).

Akwa Ibom State covers a total land area of 8412 km^2 , encompassing the entire Qua Iboe River basin, the western part of the lower Imo River basin. The State lies between latitudes $4^{\circ}32'$ and $5^{\circ}53'$ North and longitudes $7^{\circ}25'$ and $8^{\circ}25'$ East.

The State is characterized by three broad physical outlines. The first one is the marshy river-washed soils around the riverine areas. The second outline is the flat low-lying lands that constitute most of the State. The third physical feature is the extensive high ground with undulating hills which stand out in marked relief against the low-lying lands. The landscape of Akwa Ibom State bears altitudes of 45–70 m.

Akwa Ibom State is located within the forest zone of Nigeria, and has the tropical rainy climate. The forest vegetation is divided into three types: saline water swamp forest which comprises woodlands, fresh water swamp forest which consists of small trees, shrubs and grasses, and rainforest which mainly has tall trees. These types of vegetation serve as a replenishable source of ingredients for phytomedicine in the State (Petters et al., 1994).

Akwa Ibom State comprises 31 local government areas presently with a population of about 2,300,000. The State is composed mainly of the Ibibio, Eket, Annang, Oron, Andoni and Okobo ethnic groups, with the Ibibio forming the largest ethnic group in the State (Udo, 1984), and the fourth largest ethnic group in Nigeria (Talbot, 1969). Consequently, Ibibio language forms one linguistic unit of the state.

Traditionally, the chief occupations of the State are farming for the mainland indigenes, and fishing and salt production for the riverine indigenes (Petters et al., 1994).

3. Materials and methods

The pieces of information gathered on various data such as local names, plant part used, therapeutic effect, diseases treated, methods of preparation, methods of administration, doses and duration of treatment, were obtained, through personal interview, from traditional medical practitioners, community elders and patients. The ethnobotanical survey exercise was executed between August 2000 and December 2002.

Thirty homes in each of the local government area were visited resulting in the interview of 930 households (one interviewee per household). At least 20 homes visited were selected to comprise a traditional medical practitioner each, while the remaining 10 homes had either a community elder or a patient. The ratio of male to female was 60:40, while their mean age was 65 years. The people interviewed were members of all the different ethnic groups – Ibibio, Eket, Annang, Oron, Andoni, Okobo – comprising the 31 local government areas of the State.

In the interview, enquiries regarding what ailments were treated by what plant species were made. This appears to be a better approach to appropriate data collection than if enquiries were made as to what plants were used to treat what ailments. In this case, the informant usually found medicinal use for any plant indicated. Information was gathered according to the survey list of Sofowora (1993). In the process, plant specimens implicated were collected, and subsequently preserved and stored in the herbarium of the Department of Pharmacognosy and Natural Medicine, Faculty of Pharmacy, University of Uyo. The plants were identified by the use of the flora of Nigeria and West Africa (Hutchinson and Dalziel, 1954, 1958, 1968; Keay et al., 1964; Stanfield and Lowe, 1987) as well as by the use of other publications on medicinal plants (Iwu, 1986; Etukudo, 2000, 2003). All the local government areas comprising the State were covered, and are listed with their reference numbers: 1, Uyo; 2, Ibesikpo Asutan; 3, Nsit Ibom; 4, Nsit Atai; 5, Ikot Ekpene; 6, Essien Udim; 7, Obot Akara; 8. Abak; 9, Etim Ekpo; 10; Ukanafun; 11, Oruk Anam; 12, Ika; 13, Mkpat Enin; 14, Ikot Abasi; 15.Udung Uko; 16, Eastern Obolo; 17, Nsit Ubium; 18, Etinan; 19, Onna; 20, Eket; 21, Esit Eket; 22, Ibeno; 23, Ikono; 24, Ibiono; 25, Itu; 26, Uruan; 27, Okobo; 28, Oruko; 29, Mbo; 30, Oron; 31, Ini.

3.1. Performance index of medicinal plants

The performance index applied here was proposed by Betti (2002). To analyze the data, 'specific flora' is defined as the list of plants used for treating a specific ailment, symptom or physiological effect. The 'global flora' is defined as the total list of plants recorded to be used for all types of ailments in a specific place such as Akwa Ibom State. The relationship between the 'specific flora' and the 'global flora' can be inferred thus: if the use of a specific plant for a specific ailment is randomly selected, the proportion of the number of citations to the total number of citations (*P*1) would be similar to the proportion of 'specific flora' to the 'global flora' (*P*2). To illustrate the selectivity of a plant for a specific disease, a comparison is drawn between the expected and observed values of the proportion of citation of a plant for a specific disease. The difference (*D*) between



Fig. 1. Map of Akwa Ibom State in Nigeria.

the two proportions is then used to define a performance index (Ip), which ranges between 0 and 3 according to the following arbitrary scale:

- If P1 P2 < 0, Ip = 0: the plants concerned are rejected, not significant.
- If $0 < P1 P2 \le 1/3$, Ip = 1: average performance.
- If $1/3 < P1 P2 \le 2/3$, Ip = 2: high performance.
- If P1 P2 > 2/3, Ip = 3: very high performance.

To illustrate this, an instance is given regarding the performance index of a plant, *Dennettia tripetala*, used to treat rheumatism:

- *C*1 = number of citations of *Dennettia tripetala* for treating rheumatism = 103.
- *C*2 = number of citations of *Dennettia tripetala* in the global list (all ailments) = 145.
- C3 = total number of citations of rheumatism = 632.
- C4 = total number of citations for all ailments = 58,663.

P1 (observed) and P2 (theoretical) are calculated as follows:

- P1 = C1/C2 = 103/145 = 0.71;
- P2 = C3/C4 = 632/58,663 = 0.01;
- D = P1 P2 = 0.71 0.01 = 0.70
- *P*1−*P*2=0.70>2/3, thus Ip=3, which signifies a very high performance.

The number of citations for each recorded plant species used for a specific ailment is indicated in Table 3.

4. Results

Information on the plants used in the ethnomedicine of Akwa Ibom State is given in Table 1. The plants are arranged in the alphabetical order of their families. Local names are provided in Ibibio language because it is the language commonly spoken by all the ethnic groups of the State.

A total of 930 households in Akwa Ibom State were surveyed (Fig. 1). From this survey, 54 families were gathered comprising 102 genera and 114 plant species. A total of 58,663 citations were recorded for 58 ailments and other health problems.

4.1. Importance of ailments indicated

The importance of each ailment is evaluated based on the number of citations made by the informants. The 58 ailments recorded are indicated in Tables 2 and 3. Fig. 2 illustrates the relative importance of the specific ailments recorded. In this case, only the 10 most important ailments are indicated: skin disease (12.1% of the citations), malaria (7.1%), diabetes (7.1%), oral hygiene (5.1%), cough (5.1%), gonorrhoea (5%), haemorrhoids (4.8%), stomach ache (4.5%), hypertension (4.5%) and laxative (3.4%).



Fig. 2. Relative importance of diseases in terms of citations in the homes of Akwa Ibom State.

Table 1

Medicinal plants of Akwa Ibom State

Family	Botanical name	Specimen number	Local name (Ibibio) ^a (sources)	Plant part used ^a Method of preparation (sources)		Ailment treated, therapeutic effect	Administration, dosage and duration of the treatment
Acanthaceae	Justicia insularis T. Anders.	KKA 1	Mmeme (1, 4, 5, 7,	Leaves (1, 4, 5, 7,	Cooked as soup	Digestive, weaning	Internal use; 2×1
	Afrofittonia silvertris Lindau	KKA2	12) Mmeme (1–10, 22,	12) Leaves (1–10, 22,	Cooked as soup	agent, laxative Digestive, weaning	Internal use; 2×1
	Eramomastax polysperma (Benth) Dandy	KKA3	23, 30, 31) Edem ididuot (5–7, 9, 15)	23, 30, 31) Leaves (5–7, 9, 15)	Crushed and the juice applied	agent, laxative Profuse bleeding	External use
Agavaceae	Dracaena arborea (Willd.) Link Enum. Hort.	KKA4	Okono (15, 21–28)	no (15, 21–28) Roots Crushed and macerated in illicit gin or soda water as infusion		Gonorrhoea	Internal use; 3×1 for 2 weeks
				Leaves (15, 21–28)	Squeezed to release juice	Boils, burns	External use
Amaranthaceae	Achyranthes aspera L.	KKA5	Udok mbiok, Udok mbiet (1, 2, 4, 6, 10, 12, 29)	Leaves (1, 2, 4, 6, 10, 12, 29)	Boiled in water to make decoction	Diarrhoea, dysentery, ulcer	Internal use; 3×1 for 7 days
Anacardiaceae	Spondias mombin L.	KKA6	Nsukakara (1–31)	Leaves	Squeezed in water and drunk	Dysentery	Internal use; 3×1 for 7 days.
				Root bark (1-31)	Powdered and mixed with lime for 10 min	Haemorrhoid	Internal use; 3×1 for 5 days
Anacardiaceae	Mangifera indica L.	KKA7	'Mango' (1-31)	Leaves (1-31)	Boiled in water as decoction	Hypertension	Internal use; 2×1 for 3 days.
	Anacardium occidentale L.	KKA8	'Cashew' (3, 15, 16, 18, 20, 22, 24)	Bark (3, 15, 16, 18, 20, 22, 24)	Boiled in water as decoction	Malaria	Internal use; 2 × 1 till recovery
Annonaceae	Dennettia tripetala Bak. f.	KKA9	Nkarika (11–13, 15, 16, 20)	Root bark (11–13, 15, 16, 20)	Crushed and macerated or boiled in water to make infusion or decoction	Bleeding, rheumatism	External use; bathing
	Uvaria chamae P. Beauv.	KKA10	Nkarika ikot (1–3, 7, 9, 13, 14, 16, 18)	Root (1–3, 7, 9, 13, 14, 16, 18)	Crushed and boiled in water or palm wine as decoction or macerated in soda water as infusion	Haemorrhoid, diarrhoea, jaundice, bleeding	Internal use; 2×1 till recovery
	<i>Monodora myristica</i> (Gaertn.) Dunal	KKA11	Enwun (5, 21, 24, 25, 30)	Seeds (5, 21, 24, 25, 30)	Powdered	Pediculosis	External use; about 5 g in 1 week
Apocynaceae	Rauwolfia vomitoria Afzel. Alstonia boonei De Wild.	KKA12 KKA13	Ekiko (1–31) Ukpo (5, 21–23, 23, 29)	Root (1–31) Roots, leaves (5, 21–23, 29)	Boiled in water to make decoction Boiled in water as decoction	Mental illness Malaria	Internal use; 2×1 Internal use; 3×1 for 4–6 days
Araceae	Anchomanes difformis (Bl.) Engl.	KKA14	Nkokot (2, 3, 11, 13, 15, 20, 22, 24–26)	Bulb (2, 3, 11, 13, 15, 20, 22, 24–26)	Crushed and the sap applied	Haemorrhoid	Internal use; 1 × 1 before meal for 3 days
						Wounds	External use
Araceae	Caladium bicolor (Ait) Vent.	KKA15	Ikpon ekpo, udia edi (1–31)	Corm (1-31)	Pounded	Wounds, sores, bruises	External use
Arecaceae	Cocos nucifera L.	KKA16	Isiboyob, isip	Liquid endosperm	Fruit cracked to collect the liquid	Oral rehydration	Internal use; drunk
Asclepiadaceae	Gongronema latifolium Benth.	KKA17	Utasi (1–31)	Leaves (1–31)	Boiled or macerated in water to make decoction or infusion.	Diabetes	Internal use; 3×1 ; eaten
Bignoniaceae	<i>Newbouldia laevis</i> (P. Beauv.) Seemann ex Bureau	KKA18	Itumo, oboti (1, 2, 5, 9, 13, 14, 20, 28, 29, 31)	Stem bark	Boiled with sugarcane juice	Boil	Internal use; 3×1 for 5–7 days
				Leaves (1, 2, 5, 9, 13, 14, 20, 28, 29, 31)	Boiled in water as decoction	Dysmenorrhoea	Internal use
Bombacaceae	Adansonia digitata L.	KKA19	'Baobab' (3, 4, 7, 19, 25, 28, 30)	Leaves (3, 4, 7, 19, 25, 28, 30)	Boiled in water to make decoction	Malaria	Internal use; 3×1 till recovery
Boraginaceae	Heliotropium indicum L.	KKA20	Otukeyin, eka esin ono, edisimon (4, 6, 8, 9, 10, 17–19, 22,	Leaves (4, 6, 8–10, 17–19, 22, 23, 27)	Crushed or boiled to make decoction	Sore throat, boil	Internal use; $1-2$ drops \times 1, or drunk
Burseraceae	Dacryodes edulis (G. Don) H.J. Lam	KKA21	23, 27) Eben (1–31)	Leaves	Crushed and the juice applied	Skin disease	External use
				Stem (1-31)	Chewed	Oral hygiene	Chewing stick
Burseraceae	<i>Dacryodes klaineana</i> (Pierre) H.J. Lam	KKA22	Eben ekpo (1–12, 20, 21, 23–25)	Root (10, 11, 12, 20, 21, 23–25)	Boiled in water to make decoction	Skin disease	Internal use; 2×1 for 3 days
Caesalpiniaceae	<i>Daniellia ogea</i> (Harrms) Rolfe ex Holl.	KKA23	Enan eto (7, 8, 15, 20, 22, 23, 26, 27, 29, 30, 31)	Root (7, 8, 15, 20, 22, 23, 26, 27, 29–31)	Boiled or macerated in water to make decoction or infusion	Malaria	Internal use; 4×1 for 7 days
	Anthonotha macrophylla P. Beauv.	KKA24	Nya (1, 3, 10–15, 21, 30)	Root bark (1, 3, 10–15, 21, 30)	Powdered and made into paste	Fracture	External use
	Cassia alata L.	KKA25	Ndaya okon (1–31)	Leaves (1-31)	Powdered Boiled in water to make decoction	Skin disease	External use Internal use; 2 × 1 for 5 days
	Cassia tora L.	KKA26	Ndaya okon (1–31)	Leaves (1-31)	Powdered Boiled in water to make decoction	Skin disease	External use Internal use; 2×1 for 5 days
	Distemonanthus benthamianus Baill.	KKA27	Eto-afia (4, 6, 9, 13, 17, 20, 26, 29)	Root bark (4, 6, 9, 13, 17, 20, 26, 29)	Boiled or macerated in water to make decoction or infusion	Chest pain, waist pain	Internal use; 3×1 for 3 days

Table 1 (Continued)

Family	Botanical name	name Specimen Local name Plant part used ^a Method of preparation number (Ibibio) ^a (sources) (sources)		Ailment treated, therapeutic effect	Administration, dosage and duration of the treatment		
Capparidaceae	Cleome viscosa L.	KKA28	Ubionkoriko, minenyon ntokeyin	Leaves (2, 5, 7–11, 18–20)	Macerated in water to make infusion	Infertility	Internal use; 1 × 1 before breakfast
Caricaceae	Carica papaya L.	KKA29	(2, 5, 7–11, 18–20) Udia edi, popo,	Leaves	Crushed in water or mixed with	Diabetes	Internal use; 2×1
			ukpod (1–31)	Seeds (1-31)	Grind with honey		Internal use; eaten
Celastraceae	Hippocratea africana (willd.) Loes ex Engl.	KKA30	Eban enan enan (1–3, 15, 16, 18,	Root (1–3, 15, 16, 18, 20, 25)	Boiled in palm wine, macerated in macerated in local gin or soda	Malaria, jaundice, hepatitis	Internal use; 4×1 for 5 days
Combretaceae	Combretodendrum macrocarpum P. Beauv.	KKA31	20, 23) Usin eto (2, 6, 7, 9, 13–15, 17)	Root (2, 6, 7, 9, 13–15, 17)	Boiled in water as decoction	Stomach ache, dysentery	Internal use; 3×1 for 2 days
	Combretum micranthum G.Don	KKA32	Asaka (1–20, 27, 29)	Root (1-20, 27, 29)	Macerated in water as infusion	Cancer	Internal use; 2×1
	Combretum racemosum P. Beauv.	KKA33	Asaka (1–15, 20, 24, 25, 28)	Leaves (1–15, 20, 24, 25, 28)	Juice squeezed in water	Skin disease, haemorrhoid	Internal use; 2×1 till recovery
Commelin-aceae	Palisota hirsuta (Thunb.) K. Schum.	KKA34	Edo ebot, mbriyom (6, 7, 11, 14, 15, 17, 18, 20, 21, 22, 25,	Leaves (6, 7, 11, 14, 15, 17, 18, 20–22, 25, 27)	Boiled in water as decoction Gonorrhoea		Internal use; 3 × 1 for 2 weeks
Compositae	Aspilia africana Oliv. & Hiern Eupatorium odoratum L.	KKA35 KKA36	27) CA35 Edemeron (1-31) Leaves (1-31) Crushed and the juice applied Bleeding CA36 Mbiet Awolowo, Leaves (1-31) Boiled or macerated in water to Malaria Okuokkoakpa make decoction or infusion (1-31) Malaria		Bleeding Malaria	External use Internal use; 4 × 1 for 5 days	
Compositae	Crassocephalum crepidioides (Benth.) S. Moore	KKA37	Mkpafit (10–15, 18, 21, 24, 26, 27)	Leaves (10–15, 18, 21, 24, 26, 27)	Boiled in water as decoction	Gonorrhoea	Internal use; 3 × 1 for 10 days
	Vernonia amygdalina Del.	KKA38	Etidod (1-31)	Leaves (1-31)	Crushed and the juice applied Boiled in water with <i>Ocimum</i> gratissimum leaves or cooked as soun	Boils, burns Diabetes	External use Internal use; 3×1 ; eaten
	Vernonia conferta Benth.	KKA39	Okpon ikon,	Leaves (1-31)	Crushed and rubbed Crushed in water	Itching conditions Laxative	Internal use
	Tridax procumbens L.	KKA40	Okpukko (1–31) Ayara utimense	Leaves (1-31)	Boiled in water as decoction	Skin disease	Internal use; 3×1 for 7
	A dan octamma mauritianum DC	VVA41	(1-31) Ifuk ikot (1-7-8	Lanvas (1, 7, 8, 12	Dourdered and magazeted in water	Maaslas ahiakan	days
	Auenosteninu muuriuunum DC.	KKA41	12, 13, 16, 17, 20,	13, 16, 17, 20, 21, 24, 26)	as infusion	pox	weeks
	Melanthera scandens (Schum. & Thonn.) Roberty	KKA42	21, 24, 26) Ayara edemeron (3, 6, 9, 15, 24, 27, 31)	24, 26) Leaves (3, 6, 9, 15, 24, 27, 31)	Crushed in water	Dysmenorrhoea	Internal use; 2×1 for 3 days
Connaraceae	Cnestis ferruginea DC.	KKA43	Utin ewa, utin ebua (10, 15, 16, 19–21,	Fruits (10, 15, 16, 19–21, 23, 27, 29,	Crushed in water	Chest pain, ear pus	Internal use; 2×1 before meal for 3 days
Convolvulaceae	Ipomoea involucrata P. Beauv.	KKA44	23, 27, 29, 30) Mkpafiafian (1–30)	30) Root (1–30)	Boiled in water to make decoction	Mental illness	Internal use; 3×1 for 2 weeks
Cucurbitaceae	Telfairia occidentalis Hook. f.	KKA45	Nkon (1-31)	Leaves (1-31)	Cooked as soup, macerated in water to make infusion	o, macerated in Anaemia Infusion	
Euphorbiaceae	Alchonea cordifolia (Schum &	KKA46	Mbom (1-31)	Leaves (1-31)	Crushed in water	Skin disease	External use
	Thonn.) Muell. Arg. Alchornea laxiflora (Benth.) Pax	KKA47	Nwariwa (17, 20,	Leaves (17, 20, 24, 25, 27)	Crushed in water	Skin disease	External use
	Phyllanthus amarus Schum & Thonn.	KKA48	Oyomokiso, aman keeden (4, 6, 9, 13,	Leaves (4, 6, 9, 13, 20, 24, 29)	Boiled in water as decoction	Malaria	Internal use; 4×1 for 5 days
	Ricinus communis L.	KKA49	Eto kasto, eto adan	Seeds (1-31)		Vermifuge, laxative	Internal use; chewing
	<i>Maesobtrya barteri</i> (Baill.) Hutch.	KKA50	Nnyanyatet (4, 7, 12, 20–24, 27, 30,	Root (4, 7, 12, 20–24, 27, 30, 31)	Crushed fresh to liberate the juice	Skin disease	External use
	Maesobotrya dusenii (Pax) Hutch.	KKA51	51) Nnyanyatet (4, 7, 12, 20–24, 27, 30, 31)	Root	Crushed fresh to liberate the juice	Skin disease	External use
			51)	Root, stem (4, 7, 12, 20–24, 27, 30, 21)	Chewed	Oral hygiene	Chewing stick
	Microdesmis puberula Hook. f.	KKA52	Ntabit (3, 4, 6, 9,	Leaves	Cooked as soup	Ulcer	Internal use; eaten
	ex Planch		12, 15, 16, 25)	Root (3, 4, 6, 9, 12, 15, 16, 25)	Boiled in water to make decoction	Gonorrhoea	Internal use; 2×1 for 7 days
Euphorbiaceae	Manihot esculenta Crantz	KKA53	Iwa (1–31)	Leaves Stem (1–31)	Crushed to liberate sap Crushed to liberate sap	Skin disease Conjunctivitis	External use External use; applied to
	Acalypha fimbriata Schum. & Thonn.	KKA54	Okokho nyin (12, 14, 20, 23, 24, 27)	Whole plant (12, 14, 20, 23, 24, 27)	Boiled in water as decoction	Laxative	Internal use; 3×1 for 1 day

Table 1 (Continued)

Family Botanical name Specimen Local name number (Ibibio) ^a (second) (second)		Local name (Ibibio) ^a (sources)	Plant part used ^a (sources)	Method of preparation	Ailment treated, therapeutic effect	Administration, dosage and duration of the treatment		
	Croton zambesicus Mull. Arg.	KKA55	Eto-oduma (4, 6, 7, 9, 11, 13, 16, 19, 24, 20)	Leaves (4, 6, 7, 9, 11, 13, 16, 19, 24, 20)	Boiled in water to make decoction	Diarrhoea, dysentery, malaria	Internal use; 2 × 1 for 3 days	
	Euphorbia heterophylla L.	KKA56	24, 29) Adia-kegarri (1, 2, 4, 7, 12, 15, 20, 22)	Leaves (1, 2, 4, 7, 12, 15, 20, 22)	Boiled or macerated in water to make decoction or infusion, or mixed with 'Garri' (cassava product)	Purgative	Internal use; 1×1 for 1 day; eaten	
	Euphorbia hirta L.	KKA57	Etinkene ekpo (2, 3, 7, 8, 12, 17, 21, 23, 26, 29)	Whole plant (2, 3, 7, 8, 12, 17, 21, 23, 26, 29)	Boiled in water to make decoction	Asthma	Internal use; taken as fre- quently as possible	
	Jatropha curcas L.	KKA58	Eto-oko obio nsit (1, 4–7, 9, 21, 30, 31)	Seeds	Crushed to express its oil	Skin disease, laxative	Internal use; 3 teaspoon-fuls \times 1	
				Leaves (1, 4–7, 9, 21, 30, 31)	Crushed and mixed with olive oil	Convulsion	Internal use	
Flacourtiaceae	Homalium letestui Pellegr.	KKA59	Oton idim (7, 9, 10, 15, 21, 22, 25, 29, 30)	Leaves	Boiled or macerated in water to make decoction or infusion	Skin disease	Internal use; 3×1 till cure	
				Stem (7, 9, 10, 15, 21, 22, 25, 29, 30)	Chewed	Oral hygiene	Chewing stick	
Gnetaceae	Gnetum africanum Welw.	KKA60	Afang (1–31)	Leaves (1–31)	Chewed or cooked as soup	Sore throat, diarrhoea, hypertension	Internal use; eaten	
G ramineae	Saccharum officinarum L.	KKA61	Mboko (1-31)	Stem (1-31)	Boiled fresh with palm wine	Malaria	Internal use; 4×1 for 7	
	Cymbopogon citratus (DC) Stapf	KKA62	Ebana, nyayaha (1–31)	Leaves (1-31)	Boiled in water to make decoction	Malaria	Internal use; 3×1 for 5 days	
Guttiferae	Garcinia cola Heckel	Heckel KKA63 Efiad (1–31) Seeds (1–31) Chewed with Aframomum		Chewed with Aframomum	Cough, chest pain	Internal use; eaten		
	Symphonia globulifera L.	KKA64	Efiat ndua (1, 4,	Leaves	Boiled in water as decoction	Skin disease	Internal use; 3×1 or 7	
			6-8, 10, 11)	Root bark (1, 4,	Boiled in water as decoction	Cancer	days Internal use	
Humiraceae	<i>Sacoglottis gabonensis</i> (Baill.) Urb.	KKA65	Mkpaeto, edad (5, 6, 11, 13, 14, 20, 24, 25, 27)	6–8, 10, 11) Leaves (5, 6, 11, 13, 14, 20, 24, 25, 27)	Boiled in water to make decoction	Fracture	Internal use; 2×1 till recovery	
Icacinaceae	Icacina trichantha Oliv.	KKA66	24, 25, 27) Okpokpo, efikison (5, 9, 15, 22, 25, 27, 20, 21)	Leaves and seeds (5, 9, 15, 22, 25, 27, 20, 21)	Crushed and macerated in local gin	Hypertension, asthma	Internal use; 2×1 for 5 days	
Icacinaceae	Lasianthera africana P. Beauv.	KKA67	Editan (1–31)	25–27, 50, 51) Fruits	Macerated in water to make infusion	Asthma	Internal use; taken fre- quently until recovery	
Labiatae	Solenostemon monostachuus (P	KK 168	Ntorikwot (7, 9, 11	Leaves $(1-31)$	Cruched in water	Skin disease	3×1 for 3 days	
Labratae	Beauv.) Briq	KKA00	12, 14, 15)	12, 14, 15)			days	
	Ocimum gratissimum L.	ККА69	Nton (1–31)	Leaves (1–31)	Macerated in water to make infusion, or used as spice in soup	stomach ache	Internal use; 3×1 for 5 days; eaten	
Lauraceae	Persea americana Mill.	KKA70	Eben mbakara (12, 13, 15, 21, 22, 25, 27, 20, 21)	Seeds (12, 13, 15, 21, 22, 25, 27, 30, 21)	Powdered and mixed with pap	Hypertension	Internal use; eaten	
Liliaceae	Allium sativum L.	KKA71	Etebe owoinu (1–31)	Clove (1–31)		Diabetes, hypertension, stomach ache	Internal use; eaten; 2 cloves $\times 1$	
	Allium cepa L. KKA72 Ayim (1–31) Bulb (1–31) Crushed		Crushed	general debility Convulsion	External use; applied to the face			
						Stomach upset, rheumatism,	Internal use; eaten; 2 bulbs \times 1	
Loaganiaceae	Anthocleista djalonensis A. Chev.	KKA73	Ibu (1–4, 6, 8, 9, 12, 15, 17, 20)	Root (1–4, 6, 8, 9, 12, 15, 17, 20)	Boiled in water to make decoction, or macerated in local gin to make	Malaria, gonorrhoea	Internal use; 3×1 for 5 days	
Malvaceae	Gossypium hirsutum L.	KKA74	Eto-ofo (1-31)	Leaves, root (1-31)	Boiled or macerated in water to make decoction or infusion	Gonorrhoea	Internal use; 2×1 for 5 days	
	Malvastrum coromandelianum (L.) Garcke	KKA75	Udot akananwan, ofon akananwan (2, 4–6, 10, 12, 15, 20, 24, 25)	Leaves (2, 4–6, 10, 12, 15, 20, 24, 25)	Cooked as soup	Stomach ache	2 × 1 for 5 days Internal use; eaten	
	Sida acuta Burm.f.	KKA76	Akana-awan- indipeke-isoro (1–31)	Root	Boiled or macerated in water to make decoction or infusion	Cholera	Internal use; 3×1 till recovery	
			× - 7	Leaves (1-31)	Crushed	Whitlow	External use	
Meliaceae	Guarea thompsonii Sprague & Hutch.	KKA77	Afia ikpok eto (4–6, 9, 11, 15, 16, 20, 21)	Stem bark (4–6, 9, 11, 15, 16, 20, 21)	Boiled or macerated in water to make decoction or infusion	Waist pain	Internal use; 2×1 for 3 days	

Table 1 (Continued)

Family	Botanical name	Specimen number	Local name (Ibibio) ^a (sources)	Plant part used ^a (sources)	Method of preparation	Ailment treated, therapeutic effect	Administration, dosage and duration of the treatment	
Mimosaceae	Pentaclethra macrophylla Benth.	KKA78	Ukana (3, 4, 7, 10, 15–17, 20, 21, 25, 20, 21)	Root	Cooked as soup	Tooth ache	Chewed	
			29, 31)	Seeds (3, 4, 7, 10, 15–17, 20, 21, 25, 20, 31)		Hypertension	Internal use; eaten	
	Tetrapleura tetraptera (Schum. & Thonn.) Taub.	KKA79	Uyayak (1–31)	Fruit (1–31)	Boiled in water to express oil	Skin disease, conjunctivitis	External use	
	Cylicodiscus gabunensis Harms	KKA80	Nyan (10, 11, 14, 16, 20, 25)	Leaves (10, 11, 14, 16, 20, 25)	Boiled in water as decoction	Malaria	Internal use; 3×1 for 7 days	
Moraceae	Artocarpus communis J.R. & G. Forst	KKA81	Berefud, usungenyon (2, 3, 5, 7, 8, 14, 15, 26)	Stem and leaves (2, 3, 5, 7, 8, 14, 15, 26)	Powdered	Yellow fever	Incision	
Musaceae	Musa sapientum L.	KKA82	Mboro (1–31)	Leaves (1-31)	Boiled in water to make decoction	Ulcer	Internal use; 3×1 for 2 days	
	Musa paradisiaca L.	KKA83	Ukom, mbrenyon (1–31)	Stem (decayed) (1-31)	Crushed with <i>Talinum triangulare</i> leaves and mixed with local chalk to form a paste	Measles	External use	
Myrtaceae	Eugenia uniflora L.	KKA84	Ntuen mbakara (5, 11–13, 22, 25, 29–31)	Leaves	Boiled in water to make decoction	Skin disease	Internal use; 2×1 for 5 days	
				Stem (5, 11–13, 22, 25, 29–31)	Chewed	Oral hygiene	Chewing stick	
Palmae	Elaeis guineensis Jacq.	KKA85	Eyop (15, 17–20, 25, 29)	Palm fruit pericarp (15, 17–20, 25, 29)	Peeled	Boil	External use	
Paniceae	Setaria anceps Stapf ex Massey	KKA86	Nkowono (1, 4, 7, 8, 10, 14, 15, 17, 21, 24, 26, 30)	Root and leaves (1, 4, 7, 8, 10, 14, 15, 17, 21, 24, 26, 30)	Boiled or macerated in water to make decoction or infusion	Fibroid	Internal use; 2×1 for 2 weeks	
Papilionaceae	Baphia nitida Lodd.	KKA87	KKA87 Afuo (1-31) Root bark (1-31) Boiled in water to make decoction or macerated in local gin		Boiled in water to make decoction or macerated in local gin	Gonorrhoea, haemorrhoid	Internal use; 3×1 for 7 days	
	Glycine max L. Abrus precatorius L.	KKA88 KKA89	Nkoti eto (1–31) Nneminua (4, 6, 8–10, 12, 25)	Beans (1–31) Leaves (4, 6, 8–10, 12, 25)	Boiled in water to express the oil Crushed and the juice applied	Measles Skin disease	External use; lotion External use	
	Pterocarpus mildbraedii Harms	KKA90	Mkpa, Mkpafere (2, 3, 7, 11, 12, 15, 20, 22, 24, 20)	Stem bark (2, 3, 7, 11, 12, 15, 20,	Crushed and the juice applied	Rheumatism	External use	
	Cajanus cajan (L.) Millsp.	KKA91	20, 22–24, 30) Nkoti (3, 5, 7–10, 15, 20)	22–24, 30) Seeds (3, 5, 7–10, 15, 20)	Ground and applied	Smallpox	External use	
	Milletia aboensis (Hook. f.) Bak.	KKA92	Isari (14, 15, 17–19, 25)	Leaves	Boiled in water to make decoction	Mental illness	Internal use; 2×1 for 7 days	
			, .,	Root bark (14, 15, 17–19, 25)	Boiled in water to make decoction	Galactagogue	Internal use; 1×1	
	Lonchocarpus cyanescens (Schum. & Thonn.) Benth.	KKA93	Awa (1, 3, 10, 12, 17, 24, 28, 30)	Root	Boiled in water to make decoction	Boil, yaw	Internal use; 2 × 1 for 3 days	
				Leaves (1, 3, 10, 12, 17, 24, 28, 30)	Crushed and the juice applied	Rheumatism		
Polygalaceae	Carpolobia lutea G. Don	KKA94	Ikpafun (4, 7, 10, 15, 20, 24, 25, 29)	Root (4, 7, 10, 15, 20, 24, 25, 29)	Boiled in water to make decoction	Aphrodisiac	Internal use; 1×1	
Rubiaceae	Borreria verticillata (L.) G.F.W. Mey.	KKA95	Abia ikana (4, 6, 7, 9, 11–13, 16)	Leaves (4, 6, 7, 9, 11–13, 16)	Crushed to liberate the juice	Skin disease	External use	
	Nuclea latifolia Sm.	KKA96	Mbom-mbon, mbon-ibon (5, 9, 12–14, 17, 23, 27)	Root (5, 9, 12–14, 17, 23, 27)	Boiled or macerated in water to make decoction or infusion	Malaria	Internal use; 3×1 for 5 days	
	Heinsia crinita (Afzel.) G. Tayl.	KKA97	Atama (1-31)	Root	Crushed and made into a paste with local chalk	Abscess	External use	
				Leaves (1-31)	Boiled in water to make decoction	Hypertension	Internal use; 2×1 for 3 days	
	<i>Randia longiflora</i> Salisb. <i>Randia acuminata</i> (G. Don) Benth.	KKA98 KKA99	Okok edi (1–31) Okok edi (1–31)	Stem (1–31) Stem (1–31)	Chewed Chewed	Oral hygiene Oral hygiene	Chewing stick Chewing stick	
	Ixora coccinea L.	KKA100	'Ixora' (1–31)	Whole plant	Boiled in water to make decoction	Dysentery, ulcer, gonorrhoea	Internal use; 3 × 1 for 5 days	
				Stem, root (1-31)	Chewed	Oral hygiene	Chewing stick	
Rutaceae	Fagara macrophylla Engl.	KKA101	Nkek (5, 7, 20, 24–26, 30, 31)	Root bark	Boiled in water to make decoction	Gonorrhoea, haemorrhoid	Internal use; 2 × 1 for 7 days	
				24–26, 30, 31)	Crushed	Бон	External use	
	Clausena anisata (Willd.) Hook. f. ex Benth.	KKA102	Mbiet ekpene (1, 2, 7–9, 15, 21, 24, 29,	Stem bark (1, 2, 7–9, 15, 21, 24, 29,	Chewed Boiled in water to make decoction	Tooth ache Measles	Chewing stick Internal use; 4×1 for 2 weeks	
	Citrus aurantifolia L.	KKA103	30) Mkpiri osokoro (1-31)	50) Fruit (1–31)	Juice squeezed out	Stomach ache	Internal use; drunk.	
	Citrus limon L.	KKA104	'Lemon' (1–31)	Fruit (1-31)	Juice squeezed out	Cough	Juice squeezed out	
Sapotaceae	Chrysophyllum africanum A. DC.	KKA105	Udara (1-31)	Leaves (1-31)	Boiled in water to make decoction	Dysmenorrhoea	Internal use; 1 × 1 for 3 days	

Table 1 (Continued)

Family	Botanical name	ical name Specimen Local name Plant part used ^a Method of preparation number (Ibibio) ^a (sources) (sources)		Ailment treated, therapeutic effect	Administration, dosage and duration of the treatment		
	Synsepalum dulcificum (Schum. & Thonn.) Daniell	KKA106	Mkpantun (2–5, 7, 10–12, 14, 15)	Root (2–5, 7, 10–12, 14, 15)	Macerated in local gin or soda water	Gonorrhoea	Internal use; 2 × 1 for 7 days
Solanaceae	Solanum torvum Sw.	KKA107	Nditot (5, 11, 13, 14, 17, 20, 21, 23, 30)	Fruit (5, 11, 13, 14, 17, 20, 21, 23, 30)	Crushed in warm water	Ulcer	Internal use; 2×1
	Solanum melongena L.	KKA108	Nya (1–31)	Fruit (1-31)	Cooked as soup	Diabetes	Internal use; eaten
Sterculiaceae	Cola acuminata (P. Beauv.) Schott & Endl.	KKA109	Ibon (1–31)	Cotyledons (1-31)	Powdered	Putrid sore	External use
Urticaceae	Fleurya aestuans (Linn.) Gaud. ex Miq.	KKA110	Ntan, nkere (3, 8, 12, 19, 22, 29–31)	Leaves (3, 8, 12, 19, 22, 29–31)	Crushed and made into a paste with local chalk	Skin disease	External use
Vitaceae	Cissus quadrangularis L.	KKA111	Oboro-uduk (2, 3, 6, 11, 14, 17)	Stems (2, 3, 6, 11, 14, 17)	Crushed fresh and juice applied	Skin disease	External use; 3 × 1 till cure
Zingiberaceae	Costus afer Ker. Gawl.	KKA112	Mbritem (1–6, 8, 10, 12, 20, 26–29)	Stem (1–6, 8, 10, 12, 20, 26–29)	Juice squeezed out	Wound	External use
	Aframomum melegueta K. Schum	KKA113	Ntuenibok (1-31)	Fruit (1–31)	Chewed, sometimes with Garcinia cola	Cough, chest pain	Internal use; eaten
	Zingiber officinale Roscoe	KKA114	'Ginger' (1-31)	Rhizome (1-31)	Chewed	Cough, catarrh, stomach ache	Internal use; eaten

 1×1 , once a day; 2×1 , twice a day; 3×1 , thrice a day; 4×1 , four times a day (it means one glass of decoction or infusion, unless otherwise indicated). ^a Sources are related to the different local government areas of the State where the information was gathered.

4.2. Index of performance (Ip) of plant species

The 58,663 citations made by Akwa Ibom indigenes for the medicinal plants collected in the study area are shown in Table 2. Table 3 indicates all the plant species collected with their performance index for specific ailment. For instance, *Randia longiflora* and *Randia acuminata* are significantly more frequently used (Ip > 0) than other medicinal plants used for oral hygiene.

5. Discussion

In the survey, Euphorbiaceae provides the highest number of species employed in the treatment of diseases, underscoring its importance in the traditional medicine of the State.

Some species are called by the same local name and in most cases, treat the same disease. For instance, *Afrofittonia silvestris* and *Justicia insularis* are given the same local name 'Mmeme', and are used as digestives and as weaning agents. Also, *Maesobotrya dusenii* and *Maesobtrya barteri* are referred to as 'Nyanyatet', the root of which is used to treat skin disease.

Infusion and decoction are the methods most commonly employed for the preparation of the herbal medicine.

The collection of some plants should be made with experience. For instance, the leaf of *Abrus precatorius* is the main part used medicinally. A wrong collection of the fruits of the plant could result in fatal realities, as they are considered very toxic.

5.1. Relative importance of ailments

Skin disease is the most important ailment treated on the basis of number of citations for medicinal uses (Table 2). This is followed by malaria and diabetes. Indeed, given the tropical nature of Nigeria and the prevailing poor hygienic condition of many rural areas which promote the growth of microorganisms, as well as the inadequate drainage system, it is not surprising that skin disease and malaria rank as the two most important diseases recorded in Akwa Ibom State. The plants used for treating skin diseases are applied either topically or are taken orally as decoction or infusion. In the survey of the Northern part of Nigeria as well as the southeastern and south-western parts, skin disease and malaria were also among some of the most treated diseases (Ekpendu et al., 2000; Mann et al., 2003; ASICUMPON, 2005; NNMDA, 2006).

Common medicinal plants such as *Abrus precatorius, Tetrapleura tetraptera, Jatropha curcas, Alchornea cordifolia* and *Cassia alata* used for skin diseases in Akwa Ibom State are sold in the market by herb sellers for the same purpose. The roots of *Nauclea latifolia* and the leaves of *Adansonia digitata* used to treat malaria can also be found in the market. These plants are also sold by herb sellers in the countries such as Côte D'Ivoire, South Africa, Swaziland, Zimbabwe, Mozambique, Malawi and Zambia (Cunningham, 1993).

5.2. Relative importance of medicinal plants

The plants used by the Akwa Ibom State indigenes were compared with the plants employed in other parts of Africa, most especially in the following countries of West Africa where Nigeria belongs: Ghana, Senegal, Congo Brazzaville, Côte D'Ivoire, Gabon, Guinea, Gambia, Democratic Republic of Congo, Tanzania, Liberia and Sierra Leone. Comparison with the medicinal plants used in countries such as Cameroon, South Africa, Madagascar and Angola was also made. The information obtained from this survey is indicated in Table 4. A total of 80 plants frequently used (Ip>0) by the indigenes of Akwa Ibom State are also used in other parts of Nigeria as well as in other African countries for similar and other ailments. Ten of such plants are used for similar and other ailments in at least four countries: Anacardium occidentale (four countries), Alstonia boonei (five countries), Achyranthes aspera (five countries), Uvaria chamae (four countries), Heliotropium indicum (five countries), Spondias mombin (four countries), Vernonia amygdalina (five countries), Vernonia conferta (five countries), Rauwolfia

Table 2						
Citations of r	nedicinal	nlants ir	the l	homes	of Akwa	Ibom 3

Table 2 (Continued)

Citations of medicinal plan	Ailment				
Ailment	nt Botanical name of plant Home				
Abscess	Heinsia crinita	372	Gonorrhoea		
Anaemia	Telfairia occidentalis	384	Gonorrhoea		
Aphrodisiac	Carpolobia lutea	88	Gonorrhoea		
Asthma	Euphorbia hirta	160	Gonorrhoea		
Asthma	Icacina trichantha	105	Gonorrhoea		
Asthma	Lasianthera africana	545	Gonorrhoea		
Bleeding	Aspilia africana	640	Gonorrhoea		
Bleeding	Eramomastax polysperma	66	Gonorrhoea		
Bleeding	Dennettia tripetala	42	Haemorrhoid		
Bleeding	Uvaria chamae	90	Haemorrhoid		
Boil	Dracaena arborea	69	Haemorrhoid		
Boil	Heliotropium indicum	141	Haemorrhoid		
Boil	Fagara macrophylla	170	Haemorrhoid		
Boil	Lonchocarpus cyanescens	50	Haemorrhoid		
Boil	Newbouldia laevis	240	Haemorrhoid		
Boil	Flaeis guineensis	175	Henatitis		
Boil	Crassocenhalum crenidioides	119	Hypertension		
Bruise	Caladium bicolor	275	Hypertension		
Burns	Crassocenhalum crenidioides	130	Hypertension		
Burne	Dracaena arborea	87	Hypertension		
Concer	Combretum micranthum	550	Hypertension		
Cancer	Symphonia alobulifora	230 84	Hupertension		
Caterrh	Zingibar officingle	710	Hupertension		
Chastroin	Aframomum malaquata	/10	Infortility		
Chestpain	Aframomum melegueta Crastia formusinas	433	Intertinty Itabing condition		
Chestpain	Chestis jerruginea	220	Itening condition		
Chestpain	Distance and has been been in and	155	Jaundice		
Chiekonnov	Admostorma mauritianum	155	Lavativa		
Chalara	Sida asuta	103	Laxative		
Cholera	Sida acuia Totuanlouna totuantona	100	Laxative		
Conjunctivitis	Manihat angulanta	190	Laxative		
Conjunctivitis		403			
Convulsion	Allium cepa	8/	Laxative		
Convulsion	A General curcas	140	Laxative		
Cough	Aframomum melegueta	670	Malaria		
Cough	Zingiber ojjičinale	730	Malaria		
Cough	Garcinia cola	837	Malaria		
Cougn	Citrus limon	/13	Malaria		
Diabetes	Gongronema latifolium	837	Malaria		
Diabetes	Vernonia amygdalina	900	Malaria		
Diabetes	Allium sativum	920	Malaria		
Diabetes	Solanum melongena	650	Malaria		
Diabetes	Carica papaya	850	Malaria		
Diarrhoea	Uvaria chamae	178	Malaria		
Diarrhoea	Achyranthes aspera	106	Malaria		
Diarrhoea	Gnetum africanum	744	Malaria		
Diarrhoea	Croton zambesicus	220	Malaria		
Digestive	Justicia insularis	58	Malaria		
Digestive	Afrofittonia silvestris	210	Measles		
Dysentery	Achyranthes aspera	120	Measles		
Dysentery	Spondias mombin	730	Measles		
Dysentery	Ixora coccinea	264	Measles		
Dysentery	Croton zambesicus	220	Mental illness		
Dysentery	Combretodendrum macrocarpum	116	Mental illness		
Dysmenorrhoea	Chrysophyllum africanum	760	Mental illness		
Dysmenorrhoea	Newbouldia laevis	138	Oral hygiene		
Dysmenorrhoea	Melanthera scandens	76	Oral hygiene		
Earpus	Cnestis ferruginea	158	Oral hygiene		
Fibroid	Setaria anceps	195	Oral hygiene		
Fracture	Sacoglottis gabonensis	72	Oral hygiene		
Fracture	Anthonotha macrophylla	110	Oral hygiene		
Galactagogue	Milletia aboensis	132	Oral hygiene		
General debility	Allium sativum	65	Oral rehydration therapy		
Gonorrhoea	Dracaena arborea	202	Pediculosis		
			Purgative		

Crassocephalum crepidioides Microdesmis puberula Anthocleista djalonensis Gossypium hirsutium Baphia nitida Ixora coccinea Fagara macrophylla Synsepalum dulcificum Anchomanes difformis Spondias mombin Uvaria chamae Fagara macrophylla Baphia nitida Ocimum gratissimum Combretum racemosum Hippocratea africana Mangifera indica Icacina trichantha Gnetum africanum Persea americana Allium sativum Penthaclethra macrophylla Heinsia crinita Cleome viscosa Vernonia amygdalina Hippocratea africana Uvaria chamae Justicia insularis Afrofittonia silvestris Ricinus communis Vernonia conferta Acalypha fimbriata Jatropha curcas Anacardium occidentale Saccharum officinarum Cymbopogon citratus Alstonia boonei Adansonia digitata Daniellia ogea Hippocratea africana Eupatorium odoratum Croton zambesicus Phyllanthus amarus Solenostemon monostachyus Anthocleista djalonensis Nauclea latifolia Musa paradisiaca Adenostemma mauritianum Clausena anisata Glycine max Rauwolfia vomitoria Ipomoea involucrata Milletia aboensis Maesobotrya dusenii Homalium letestui	274 112 244 610 712 250 98 215 223 420
Microdesmis puberula Anthocleista djalonensis Gossypium hirsutium Baphia nitida Ixora coccinea Fagara macrophylla Synsepalum dulcificum Anchomanes difformis Spondias mombin Uvaria chamae Fagara macrophylla Baphia nitida Ocimum gratissimum Combretum racemosum Hippocratea africana Mangifera indica Icacina trichantha Gnetum africanum Persea americana Allium sativum Penthaclethra macrophylla Heinsia crinita Cleome viscosa Vernonia amygdalina Hippocratea africana Uvaria chamae Justicia insularis Afrofittonia silvestris Ricinus communis Vernonia conferta Acalypha fimbriata Jatropha curcas Anacardium occidentale Saccharum officinarum Cymbopogon citratus Alstonia boonei Adansonia digitata Daniellia ogea Hippocratea africana Eupatorium odoratum Croton zambesicus Phyllanthus amarus Solenostemon monostachyus Anthocleista djalonensis Nauclea latifolia Musa paradisiaca Adenostemma mauritianum Clausena anisata Glycine max Rauwolfia vomitoria Ipomoea involucrata Milletia aboensis Maesobotrya dusenii Homalium letestui	112 244 610 712 250 98 215 223 420
Anthocleista djalonensis Gossypium hirsutium Baphia nitida Ixora coccinea Fagara macrophylla Synsepalum dulcificum Anchomanes difformis Spondias mombin Uvaria chamae Fagara macrophylla Baphia nitida Ocimum gratissimum Combretum racemosum Hippocratea africana Mangifera indica Icacina trichantha Gnetum africanum Persea americana Allium sativum Penthaclethra macrophylla Heinsia crinita Cleome viscosa Vernonia amygdalina Hippocratea africana Uvaria chamae Justicia insularis Afrofittonia silvestris Ricinus communis Vernonia conferta Acalypha fimbriata Jatropha curcas Anacardium occidentale Saccharum officinarum Cymbopogon citratus Alstonia boonei Adansonia digitata Daniellia ogea Hippocratea africana Eupatorium odoratum Croton zambesicus Phyllanthus amarus Solenostemon monostachyus Anthocleista djalonensis Cylicodiscus gabunensis Nauclea latifolia Musa paradisiaca Adenostemma mauritianum Clausena anisata Glycine max Rauwolfia vomitoria Ipomoea involucrata Milletia aboensis Maesobotrya dusenii Homalium letestui	244 610 712 250 98 215 223 420
Gossypium hirsutium Baphia nitida Ixora coccinea Fagara macrophylla Synsepalum dulcificum Anchomanes difformis Spondias mombin Uvaria chamae Fagara macrophylla Baphia nitida Ocimum gratissimum Combretum racemosum Hippocratea africana Mangifera indica Icacina trichantha Gnetum africanum Persea americana Allium sativum Penthaclethra macrophylla Heinsia crinita Cleome viscosa Vernonia amygdalina Hippocratea africana Uvaria chamae Justicia insularis Afrofittonia silvestris Ricinus communis Vernonia conferta Acalypha fimbriata Jatropha curcas Anacardium occidentale Saccharum officinarum Cymbopogon citratus Alstonia boonei Adansonia digitata Daniellia ogea Hippocratea africana Eupatorium odoratum Croton zambesicus Phyllanthus amarus Solenostemon monostachyus Anthocleista djalonensis Cylicodiscus gabunensis Nauclea latifolia Musa paradisiaca Adenostemma mauritianum Clausena anisata Glycine max Rauwolfia vomitoria Ipomoea involucrata Milletia aboensis Maesobotrya dusenii Homalium letestui	610 712 250 98 215 223 420
Baphia nitida Ixora coccinea Fagara macrophylla Synsepalum dulcificum Anchomanes difformis Spondias mombin Uvaria chamae Fagara macrophylla Baphia nitida Ocimum gratissimum Combretum racemosum Hippocratea africana Mangifera indica Icacina trichantha Gnetum africanum Persea americana Allium sativum Penthaclethra macrophylla Heinsia crinita Cleome viscosa Vernonia amygdalina Hippocratea africana Uvaria chamae Justicia insularis Afrofittonia silvestris Ricinus communis Vernonia conferta Acalypha fimbriata Jatropha curcas Anacardium occidentale Saccharum officinarum Cymbopogon citratus Alstonia boonei Adansonia digitata Daniellia ogea Hippocratea africana Eupatorium odoratum Croton zambesicus Phyllanthus amarus Solenostemon monostachyus Anthocleista djalonensis Cylicodiscus gabunensis Nauclea latifolia Musa paradisiaca Adenostemma mauritianum Clausena anisata Glycine max Rauwolfia vomitoria Ipomoea involucrata Milletia aboensis Maesobotrya dusenii Homalium letestui	712 250 98 215 223 420
Ixora coccinea Fagara macrophylla Synsepalum dulcificum Anchomanes difformis Spondias mombin Uvaria chamae Fagara macrophylla Baphia nitida Ocimum gratissimum Combretum racemosum Hippocratea africana Mangifera indica Icacina trichantha Gnetum africanum Persea americana Allium sativum Penthaclethra macrophylla Heinsia crinita Cleome viscosa Vernonia amygdalina Hippocratea africana Uvaria chamae Justicia insularis Afrofittonia silvestris Ricinus communis Vernonia conferta Acalypha fimbriata Jatropha curcas Anacardium occidentale Saccharum officinarum Cymbopogon citratus Alstonia boonei Adansonia digitata Daniellia ogea Hippocratea africana Eupatorium odoratum Croton zambesicus Phyllanthus amarus Solenostemon monostachyus Anthocleista djalonensis Cylicodiscus gabunensis Nauclea latifolia Musa paradisiaca Adenostemma mauritianum Clausena anisata Glycine max Rauwolfia vomitoria Ipomoea involucrata Milletia aboensis Maesobotrya dusenii Homalium letestui	250 98 215 223 420
Fagara macrophyllaSynsepalum dulcificumAnchomanes difformisSpondias mombinUvaria chamaeFagara macrophyllaBaphia nitidaOcimum gratissimumCombretum racemosumHippocratea africanaMangifera indicaIcacina trichanthaGnetum africanumPersea americanaAllium sativumPenthaclethra macrophyllaHeinsia crinitaCleome viscosaVernonia amygdalinaHippocratea africanaUvaria chamaeJusticia insularisAfrofittonia silvestrisRicinus communisVernonia confertaAcalypha fimbriataJatropha curcasAnacardium occidentaleSaccharum officinarumCymbopogon citratusAlstonia booneiAdansonia digitataDaniellia ogeaHippocratea africanaEupatorium odoratumCroton zambesicusPhyllanthus amarusSolenostemon monostachyusAnthocleista djalonensisCylicodiscus gabunensisNauclea latifoliaMusa paradisiacaAdenostemma mauritianumClausena anisataGlycine maxRauwolfia vomitoriaIpomoea involucrataMilletia aboensisMaesobotrya duseniiHomalium letestui	98 215 223 420
Synsepalum dulcificum Anchomanes difformis Spondias mombin Uvaria chamae Fagara macrophylla Baphia nitida Ocimum gratissimum Combretum racemosum Hippocratea africana Mangifera indica Icacina trichantha Gnetum africanum Persea americana Allium sativum Penthaclethra macrophylla Heinsia crinita Cleome viscosa Vernonia amygdalina Hippocratea africana Uvaria chamae Justicia insularis Afrofittonia silvestris Ricinus communis Vernonia conferta Acalypha fimbriata Jatropha curcas Anacardium occidentale Saccharum officinarum Cymbopogon citratus Alstonia boonei Adansonia digitata Daniellia ogea Hippocratea africana Eupatorium odoratum Croton zambesicus Phyllanthus amarus Solenostemon monostachyus Anthocleista djalonensis Cylicodiscus gabunensis Nauclea latifolia Musa paradisiaca Adenostemma mauritianum Clausena anisata Glycine max Rauwolfia vomitoria Ipomoea involucrata Milletia aboensis Maesobotrya dusenii Homalium letestui	215 223 420
Anchomanes difformisSpondias mombinUvaria chamaeFagara macrophyllaBaphia nitidaOcimum gratissimumCombretum racemosumHippocratea africanaMangifera indicaIcacina trichanthaGnetum africanumPersea americanaAllium sativumPenthaclethra macrophyllaHeinsia crinitaCleome viscosaVernonia amygdalinaHippocratea africanaUvaria chamaeJusticia insularisAfrofittonia silvestrisRicinus communisVernonia confertaAcalypha fimbriataJatropha curcasAnacardium occidentaleSaccharum officinarumCymbopogon citratusAlstonia booneiAdansonia digitataDaniellia ogeaHippocratea africanaEupatorium odoratumCroton zambesicusPhyllanthus amarusSolenostemon monostachyusAnthocleista djalonensisNauclea latifoliaMusa paradisiacaAdenostemma mauritianumClausena anisataGlycine maxRauwolfia vomitoriaIpomoea involucrataMilletia aboensisMaesobotrya duseniiHomalium letestui	223 420
Spondias mombin Uvaria chamae Fagara macrophylla Baphia nitida Ocimum gratissimum Combretum racemosum Hippocratea africana Mangifera indica Icacina trichantha Gnetum africanum Persea americana Allium sativum Penthaclethra macrophylla Heinsia crinita Cleome viscosa Vernonia amygdalina Hippocratea africana Uvaria chamae Justicia insularis Afrofittonia silvestris Ricinus communis Vernonia conferta Acalypha fimbriata Jatropha curcas Anacardium occidentale Saccharum officinarum Cymbopogon citratus Alstonia boonei Adansonia digitata Daniellia ogea Hippocratea africana Eupatorium odoratum Croton zambesicus Phyllanthus amarus Solenostemon monostachyus Anthocleista djalonensis Cylicodiscus gabunensis Nauclea latifolia Musa paradisiaca Adenostemma mauritianum Clausena anisata Glycine max Rauwolfia vomitoria Ipomoea involucrata Milletia aboensi Maesobotrya dusenii Homalium letestui	420
Uvaria chamae Fagara macrophylla Baphia nitida Ocimum gratissimum Combretum racemosum Hippocratea africana Mangifera indica Icacina trichantha Gnetum africanum Persea americana Allium sativum Penthaclethra macrophylla Heinsia crinita Cleome viscosa Vernonia amygdalina Hippocratea africana Uvaria chamae Justicia insularis Afrofittonia silvestris Ricinus communis Vernonia conferta Acalypha fimbriata Jatropha curcas Anacardium occidentale Saccharum officinarum Cymbopogon citratus Alstonia boonei Adansonia digitata Daniellia ogea Hippocratea africana Eupatorium odoratum Croton zambesicus Phyllanthus amarus Solenostemon monostachyus Anthocleista djalonensis Cylicodiscus gabunensis Nauclea latifolia Musa paradisiaca Adenostemma mauritianum Clausena anisata Glycine max Rauwolfia vomitoria Ipomoea involucrata Milletia aboensi Maesobotrya dusenii Homalium letestui	110
Fagara macrophyllaBaphia nitidaOcimum gratissimumCombretum racemosumHippocratea africanaMangifera indicaIcacina trichanthaGnetum africanumPersea americanaAllium sativumPenthaclethra macrophyllaHeinsia crinitaCleome viscosaVernonia amygdalinaHippocratea africanaUvaria chamaeJusticia insularisAfrofittonia silvestrisRicinus communisVernonia confertaAcalypha fimbriataJatropha curcasAnacardium occidentaleSaccharum officinarumCymbopogon citratusAlstonia booneiAdansonia digitataDaniellia ogeaHippocratea africanaEupatorium odoratumCroton zambesicusPhyllanthus amarusSolenostemon monostachyusAnthocleista djalonensisCylicodiscus gabunensisNauclea latifoliaMusa paradisiacaAdenostemma mauritianumClausena anisataGlycine maxRauwolfia vomitoriaIpomoea involucrataMilletia aboensisMaesobotrya duseniiHomalium letestui	110
Baphia nitida Ocimum gratissimum Combretum racemosum Hippocratea africana Mangifera indica Icacina trichantha Gnetum africanum Persea americana Allium sativum Penthaclethra macrophylla Heinsia crinita Cleome viscosa Vernonia amygdalina Hippocratea africana Uvaria chamae Justicia insularis Afrofittonia silvestris Ricinus communis Vernonia conferta Acalypha fimbriata Jatropha curcas Anacardium occidentale Saccharum officinarum Cymbopogon citratus Alstonia boonei Adansonia digitata Daniellia ogea Hippocratea africana Eupatorium odoratum Croton zambesicus Phyllanthus amarus Solenostemon monostachyus Anthocleista djalonensis Cylicodiscus gabunensis Nauclea latifolia Musa paradisiaca Adenostemma mauritianum Clausena anisata Glycine max Rauwolfia vomitoria Ipomoea involucrata Milletia aboensi Maesobotrya dusenii Homalium letestui	98
Ocimum gratissimum Combretum racemosum Hippocratea africana Mangifera indica Icacina trichantha Gnetum africanum Persea americana Allium sativum Penthaclethra macrophylla Heinsia crinita Cleome viscosa Vernonia amygdalina Hippocratea africana Uvaria chamae Justicia insularis Afrofittonia silvestris Ricinus communis Vernonia conferta Acalypha fimbriata Jatropha curcas Anacardium occidentale Saccharum officinarum Cymbopogon citratus Alstonia boonei Adansonia digitata Daniellia ogea Hippocratea africana Eupatorium odoratum Croton zambesicus Phyllanthus amarus Solenostemon monostachyus Anthocleista djalonenisi Cylicodiscus gabunensis Nauclea latifolia Musa paradisiaca Adenostemma mauritianum Clausena anisata Glycine max Rauwolfia vomitoria Ipomoea involucrata Milletia aboensis Maesobotrya dusenii Homalium letestui	815
Combretum racemosum Hippocratea africana Mangifera indica Icacina trichantha Gnetum africanum Persea americana Allium sativum Penthaclethra macrophylla Heinsia crinita Cleome viscosa Vernonia amygdalina Hippocratea africana Uvaria chamae Justicia insularis Afrofittonia silvestris Ricinus communis Vernonia conferta Acalypha fimbriata Jatropha curcas Anacardium occidentale Saccharum officinarum Cymbopogon citratus Alstonia boonei Adansonia digitata Daniellia ogea Hippocratea africana Eupatorium odoratum Croton zambesicus Phyllanthus amarus Solenostemon monostachyus Anthocleista djalonensis Cylicodiscus gabunensis Nauclea latifolia Musa paradisiaca Adenostemma mauritianum Clausena anisata Glycine max Rauwolfia vomitoria Ipomoea involucrata Milletia aboensi Maesobotrya dusenii Homalium letestui	800
Hippocratea africana Mangifera indica Icacina trichantha Gnetum africanum Persea americana Allium sativum Penthaclethra macrophylla Heinsia crinita Cleome viscosa Vernonia amygdalina Hippocratea africana Uvaria chamae Justicia insularis Afrofittonia silvestris Ricinus communis Vernonia conferta Acalypha fimbriata Jatropha curcas Anacardium occidentale Saccharum officinarum Cymbopogon citratus Alstonia boonei Adansonia digitata Daniellia ogea Hippocratea africana Eupatorium odoratum Croton zambesicus Phyllanthus amarus Solenostemon monostachyus Anthocleista djalonensis Cylicodiscus gabunensis Nauclea latifolia Musa paradisiaca Adenostemma mauritianum Clausena anisata Glycine max Rauwolfia vomitoria Ipomoea involucrata Milletia aboensis Maesobotrya dusenii Homalium letestui	344
Mangifera indica Icacina trichantha Gnetum africanum Persea americana Allium sativum Penthaclethra macrophylla Heinsia crinita Cleome viscosa Vernonia amygdalina Hippocratea africana Uvaria chamae Justicia insularis Afrofittonia silvestris Ricinus communis Vernonia conferta Acalypha fimbriata Jatropha curcas Anacardium occidentale Saccharum officinarum Cymbopogon citratus Alstonia boonei Adansonia digitata Daniellia ogea Hippocratea africana Eupatorium odoratum Croton zambesicus Phyllanthus amarus Solenostemon monostachyus Anthocleista djalonensis Cylicodiscus gabunensis Nauclea latifolia Musa paradisiaca Adenostemma mauritianum Clausena anisata Glycine max Rauwolfia vomitoria Ipomoea involucrata Milletia aboensis Maesobotrya dusenii Homalium letestui	98
Icacina tricinanina Gnetum africanum Persea americana Allium sativum Penthaclethra macrophylla Heinsia crinita Cleome viscosa Vernonia amygdalina Hippocratea africana Uvaria chamae Justicia insularis Afrofittonia silvestris Ricinus communis Vernonia conferta Acalypha fimbriata Jatropha curcas Anacardium occidentale Saccharum officinarum Cymbopogon citratus Alstonia boonei Adansonia digitata Daniellia ogea Hippocratea africana Eupatorium odoratum Croton zambesicus Phyllanthus amarus Solenostemon monostachyus Anthocleista djalonensis Cylicodiscus gabunensis Nauclea latifolia Musa paradisiaca Adenostemma mauritianum Clausena anisata Glycine max Rauwolfia vomitoria Ipomoea involucrata Milletia aboensis Maesobotrya dusenii Homalium letestui	580
Gnetum apricanumPersea americanaAllium sativumPenthaclethra macrophyllaHeinsia crinitaCleome viscosaVernonia amygdalinaHippocratea africanaUvaria chamaeJusticia insularisAfrofittonia silvestrisRicinus communisVernonia confertaAcalypha fimbriataJatropha curcasAnacardium occidentaleSaccharum officinarumCymbopogon citratusAlstonia booneiAdansonia digitataDaniellia ogeaHippocratea africanaEupatorium odoratumCroton zambesicusPhyllanthus amarusSolenostemon monostachyusAnhocleista djalonensisCylicodiscus gabunensisNauclea latifoliaMusa paradisiacaAdenostemma mauritianumClausena anisataGlycine maxRauwolfia vomitoriaIpomoea involucrataMilletia aboensisMaesobotrya duseniiHomalium letestui	162
Persea americanaAllium sativumPenthaclethra macrophyllaHeinsia crinitaCleome viscosaVernonia amygdalinaHippocratea africanaUvaria chamaeJusticia insularisAfrofittonia silvestrisRicinus communisVernonia confertaAcalypha fimbriataJatropha curcasAnacardium occidentaleSaccharum officinarumCymbopogon citratusAlstonia booneiAdansonia digitataDaniellia ogeaHippocratea africanaEupatorium odoratumCroton zambesicusPhyllanthus amarusSolenostemon monostachyusAnthocleista djalonensisCylicodiscus gabunensisNauclea latifoliaMusa paradisiacaAdenostemma mauritianumClausena anisataGlycine maxRauwolfia vomitoriaIpomoea involucrataMilletia aboensisMaesobotrya duseniiHomalium letestui	14/
Athum sativum Penthaclethra macrophylla Heinsia crinita Cleome viscosa Vernonia amygdalina Hippocratea africana Uvaria chamae Justicia insularis Afrofittonia silvestris Ricinus communis Vernonia conferta Acalypha fimbriata Jatropha curcas Anacardium occidentale Saccharum officinarum Cymbopogon citratus Alstonia boonei Adansonia digitata Daniellia ogea Hippocratea africana Eupatorium odoratum Croton zambesicus Phyllanthus amarus Solenostemon monostachyus Anthocleista djalonensis Cylicodiscus gabunensis Nauclea latifolia Musa paradisiaca Adenostemma mauritianum Clausena anisata Glycine max Rauwolfia vomitoria Ipomoea involucrata Milletia aboensis Maesobotrya dusenii Homalium letestui	234
Pennacterna macrophyttaHeinsia crinitaCleome viscosaVernonia amygdalinaHippocratea africanaUvaria chamaeJusticia insularisAfrofittonia silvestrisRicinus communisVernonia confertaAcalypha fimbriataJatropha curcasAnacardium occidentaleSaccharum officinarumCymbopogon citratusAlstonia booneiAdansonia digitataDaniellia ogeaHippocratea africanaEupatorium odoratumCroton zambesicusPhyllanthus amarusSolenostemon monostachyusAnthocleista djalonensisCylicodiscus gabunensisNauclea latifoliaMusa paradisiacaAdenostemma mauritianumClausena anisataGlycine maxRauwolfia vomitoriaIpomoea involucrataMilletia aboensisMaesobotrya duseniiHomalium letestui	000
rieinsta crinita Cleome viscosa Vernonia amygdalina Hippocratea africana Uvaria chamae Justicia insularis Afrofittonia silvestris Ricinus communis Vernonia conferta Acalypha fimbriata Jatropha curcas Anacardium occidentale Saccharum officinarum Cymbopogon citratus Alstonia boonei Adansonia digitata Daniellia ogea Hippocratea africana Eupatorium odoratum Croton zambesicus Phyllanthus amarus Solenostemon monostachyus Anthocleista djalonensis Cylicodiscus gabunensis Nauclea latifolia Musa paradisiaca Adenostemma mauritianum Clausena anisata Glycine max Rauwolfia vomitoria Ipomoea involucrata Milletia aboensis Maesobotrya dusenii Homalium letestui	84 765
Vernonia amygdalina Hippocratea africana Uvaria chamae Justicia insularis Afrofittonia silvestris Ricinus communis Vernonia conferta Acalypha fimbriata Jatropha curcas Anacardium occidentale Saccharum officinarum Cymbopogon citratus Alstonia boonei Adansonia digitata Daniellia ogea Hippocratea africana Eupatorium odoratum Croton zambesicus Phyllanthus amarus Solenostemon monostachyus Anthocleista djalonensis Cylicodiscus gabunensis Nauclea latifolia Musa paradisiaca Adenostemma mauritianum Clausena anisata Glycine max Rauwolfia vomitoria Ipomoea involucrata Milletia aboensis Maesobotrya dusenii Homalium letestui	205
Vernonia amygaatinaHippocratea africanaUvaria chamaeJusticia insularisAfrofittonia silvestrisRicinus communisVernonia confertaAcalypha fimbriataJatropha curcasAnacardium occidentaleSaccharum officinarumCymbopogon citratusAlstonia booneiAdansonia digitataDaniellia ogeaHippocratea africanaEupatorium odoratumCroton zambesicusPhyllanthus amarusSolenostemon monostachyusAnthocleista djalonensisNauclea latifoliaMusa paradisiacaAdenostemma mauritianumClausena anisataGlycine maxRauwolfia vomitoriaIpomea involucrataMilletia aboensisMaesobotrya duseniiHomalium letestui	203
Inportated apricand Uvaria chamae Justicia insularis Afrofittonia silvestris Ricinus communis Vernonia conferta Acalypha fimbriata Jatropha curcas Anacardium occidentale Saccharum officinarum Cymbopogon citratus Alstonia boonei Adansonia digitata Daniellia ogea Hippocratea africana Eupatorium odoratum Croton zambesicus Phyllanthus amarus Solenostemon monostachyus Anthocleista djalonensis Cylicodiscus gabunensis Nauclea latifolia Musa paradisiaca Adenostemma mauritianum Clausena anisata Glycine max Rauwolfia vomitoria Ipomoea involucrata Milletia aboensis Maesobotrya dusenii Homalium letestui	110
Justicia insularis Afrofittonia silvestris Ricinus communis Vernonia conferta Acalypha fimbriata Jatropha curcas Anacardium occidentale Saccharum officinarum Cymbopogon citratus Alstonia boonei Adansonia digitata Daniellia ogea Hippocratea africana Eupatorium odoratum Croton zambesicus Phyllanthus amarus Solenostemon monostachyus Anthocleista djalonensis Cylicodiscus gabunensis Nauclea latifolia Musa paradisiaca Adenostemma mauritianum Clausena anisata Glycine max Rauwolfia vomitoria Ipomoea involucrata Milletia aboensis Maesobotrya dusenii Homalium letestui	1/2
Afrofittonia silvestris Afrofittonia silvestris Ricinus communis Vernonia conferta Acalypha fimbriata Jatropha curcas Anacardium occidentale Saccharum officinarum Cymbopogon citratus Alstonia boonei Adansonia digitata Daniellia ogea Hippocratea africana Eupatorium odoratum Croton zambesicus Phyllanthus amarus Solenostemon monostachyus Anthocleista djalonensis Cylicodiscus gabunensis Nauclea latifolia Musa paradisiaca Adenostemma mauritianum Clausena anisata Glycine max Rauwolfia vomitoria Ipomoea involucrata Milletia aboensis Maesobotrya dusenii Homalium letestui	75
Ricinus communis Ricinus communis Vernonia conferta Acalypha fimbriata Jatropha curcas Anacardium occidentale Saccharum officinarum Cymbopogon citratus Alstonia boonei Adansonia digitata Daniellia ogea Hippocratea africana Eupatorium odoratum Croton zambesicus Phyllanthus amarus Solenostemon monostachyus Anthocleista djalonensis Nauclea latifolia Musa paradisiaca Adenostemma mauritianum Clausena anisata Glycine max Rauwolfia vomitoria Ipomoea involucrata Milletia aboensis Maesobotrya dusenii Homalium letestui	203
Vernonia conferta Acalypha fimbriata Jatropha curcas Anacardium occidentale Saccharum officinarum Cymbopogon citratus Alstonia boonei Adansonia digitata Daniellia ogea Hippocratea africana Eupatorium odoratum Croton zambesicus Phyllanthus amarus Solenostemon monostachyus Anthocleista djalonensis Cylicodiscus gabunensis Nauclea latifolia Musa paradisiaca Adenostemma mauritianum Clausena anisata Glycine max Rauwolfia vomitoria Ipomoea involucrata Milletia aboensis Maesobotrya dusenii Homalium letestui	861
Acalypha fimbriata Jatropha curcas Anacardium occidentale Saccharum officinarum Cymbopogon citratus Alstonia boonei Adansonia digitata Daniellia ogea Hippocratea africana Eupatorium odoratum Croton zambesicus Phyllanthus amarus Solenostemon monostachyus Anthocleista djalonensis Cylicodiscus gabunensis Nauclea latifolia Musa paradisiaca Adenostemma mauritianum Clausena anisata Glycine max Rauwolfia vomitoria Ipomoea involucrata Milletia aboensis Maesobotrya dusenii Homalium letestui	562
Jatropha curcas Anacardium occidentale Saccharum officinarum Cymbopogon citratus Alstonia boonei Adansonia digitata Daniellia ogea Hippocratea africana Eupatorium odoratum Croton zambesicus Phyllanthus amarus Solenostemon monostachyus Anthocleista djalonensis Cylicodiscus gabunensis Nauclea latifolia Musa paradisiaca Adenostemma mauritianum Clausena anisata Glycine max Rauwolfia vomitoria Ipomoea involucrata Milletia aboensis Maesobotrya dusenii Homalium letestui	105
Anacardium occidentale Saccharum officinarum Cymbopogon citratus Alstonia boonei Adansonia digitata Daniellia ogea Hippocratea africana Eupatorium odoratum Croton zambesicus Phyllanthus amarus Solenostemon monostachyus Anthocleista djalonensis Cylicodiscus gabunensis Nauclea latifolia Musa paradisiaca Adenostemma mauritianum Clausena anisata Glycine max Rauwolfia vomitoria Ipomoea involucrata Milletia aboensis Maesobotrya dusenii Homalium letestui	94
Saccharum officinarum Cymbopogon citratus Alstonia boonei Adansonia digitata Daniellia ogea Hippocratea africana Eupatorium odoratum Croton zambesicus Phyllanthus amarus Solenostemon monostachyus Anthocleista djalonensis Cylicodiscus gabunensis Nauclea latifolia Musa paradisiaca Adenostemma mauritianum Clausena anisata Glycine max Rauwolfia vomitoria Ipomoea involucrata Milletia aboensis Maesobotrya dusenii Homalium letestui	562
Cymbopogon citratus Alstonia boonei Adansonia digitata Daniellia ogea Hippocratea africana Eupatorium odoratum Croton zambesicus Phyllanthus amarus Solenostemon monostachyus Anthocleista djalonensis Cylicodiscus gabunensis Nauclea latifolia Musa paradisiaca Adenostemma mauritianum Clausena anisata Glycine max Rauwolfia vomitoria Ipomoea involucrata Milletia aboensis Maesobotrya dusenii Homalium letestui	802
Alstonia boonei Adansonia digitata Daniellia ogea Hippocratea africana Eupatorium odoratum Croton zambesicus Phyllanthus amarus Solenostemon monostachyus Anthocleista djalonensis Cylicodiscus gabunensis Nauclea latifolia Musa paradisiaca Adenostemma mauritianum Clausena anisata Glycine max Rauwolfia vomitoria Ipomoea involucrata Milletia aboensis Maesobotrya dusenii Homalium letestui	930
Adansonia digitata Daniellia ogea Hippocratea africana Eupatorium odoratum Croton zambesicus Phyllanthus amarus Solenostemon monostachyus Anthocleista djalonensis Cylicodiscus gabunensis Nauclea latifolia Musa paradisiaca Adenostemma mauritianum Clausena anisata Glycine max Rauwolfia vomitoria Ipomoea involucrata Milletia aboensis Maesobotrya dusenii Homalium letestui	69
Daniellia ogea Hippocratea africana Eupatorium odoratum Croton zambesicus Phyllanthus amarus Solenostemon monostachyus Anthocleista djalonensis Cylicodiscus gabunensis Nauclea latifolia Musa paradisiaca Adenostemma mauritianum Clausena anisata Glycine max Rauwolfia vomitoria Ipomoea involucrata Milletia aboensis Maesobotrya dusenii Homalium letestui	108
Hippocratea africana Eupatorium odoratum Croton zambesicus Phyllanthus amarus Solenostemon monostachyus Anthocleista djalonensis Cylicodiscus gabunensis Nauclea latifolia Musa paradisiaca Adenostemma mauritianum Clausena anisata Glycine max Rauwolfia vomitoria Ipomoea involucrata Milletia aboensis Maesobotrya dusenii Homalium letestui	243
Eupatorium odoratum Croton zambesicus Phyllanthus amarus Solenostemon monostachyus Anthocleista djalonensis Cylicodiscus gabunensis Nauclea latifolia Musa paradisiaca Adenostemma mauritianum Clausena anisata Glycine max Rauwolfia vomitoria Ipomoea involucrata Milletia aboensis Maesobotrya dusenii Homalium letestui	200
Croton zambesicus Phyllanthus amarus Solenostemon monostachyus Anthocleista djalonensis Cylicodiscus gabunensis Nauclea latifolia Musa paradisiaca Adenostemma mauritianum Clausena anisata Glycine max Rauwolfia vomitoria Ipomoea involucrata Milletia aboensis Maesobotrya dusenii Homalium letestui	711
Phyllanthus amarus Solenostemon monostachyus Anthocleista djalonensis Cylicodiscus gabunensis Nauclea latifolia Musa paradisiaca Adenostemma mauritianum Clausena anisata Glycine max Rauwolfia vomitoria Ipomoea involucrata Milletia aboensis Maesobotrya dusenii Homalium letestui	243
Solenostemon monostachyus Anthocleista djalonensis Cylicodiscus gabunensis Nauclea latifolia Musa paradisiaca Adenostemma mauritianum Clausena anisata Glycine max Rauwolfia vomitoria Ipomoea involucrata Milletia aboensis Maesobotrya dusenii Homalium letestui	122
Anthocleista djalonensis Cylicodiscus gabunensis Nauclea latifolia Musa paradisiaca Adenostemma mauritianum Clausena anisata Glycine max Rauwolfia vomitoria Ipomoea involucrata Milletia aboensis Maesobotrya dusenii Homalium letestui	54
Cylicodiscus gabunensis Nauclea latifolia Musa paradisiaca Adenostemma mauritianum Clausena anisata Glycine max Rauwolfia vomitoria Ipomoea involucrata Milletia aboensis Maesobotrya dusenii Homalium letestui	300
Nauclea latifolia Musa paradisiaca Adenostemma mauritianum Clausena anisata Glycine max Rauwolfia vomitoria Ipomoea involucrata Milletia aboensis Maesobotrya dusenii Homalium letestui	87
Musa paradisiaca Adenostemma mauritianum Clausena anisata Glycine max Rauwolfia vomitoria Ipomoea involucrata Milletia aboensis Maesobotrya dusenii Homalium letestui	194
Adenostemma mauritianum Clausena anisata Glycine max Rauwolfia vomitoria Ipomoea involucrata Milletia aboensis Maesobotrya dusenii Homalium letestui	684
Clausena anisata Glycine max Rauwolfia vomitoria Ipomoea involucrata Milletia aboensis Maesobotrya dusenii Homalium letestui	105
Glycine max Rauwolfia vomitoria Ipomoea involucrata Milletia aboensis Maesobotrya dusenii Homalium letestui	247
Rauwolfia vomitoria Ipomoea involucrata Milletia aboensis Maesobotrya dusenii Homalium letestui	722
Ipomoea involucrata Milletia aboensis Maesobotrya dusenii Homalium letestui	04-
Muletia aboensis Maesobotrya dusenii Homalium letestui	927
Maesobotrya dusenii Homalium letestui	927 192
nomalium letestui	927 192 77
Eussaia unidana	927 192 77 240
Eugenia unifiora Bandia longidona	927 192 77 240 115 87
капаta tongiftora Pandia aguminata	927 192 77 240 115 87 020
Kanala acuminala	927 192 77 240 115 87 930 020
Daemodas adulis	927 192 77 240 115 87 930 930
Cocos nucifara	927 192 77 240 115 87 930 930 145 524
Monodora muristica	927 192 77 240 115 87 930 930 145 524 582
Monoaora myrisiica Funhorhia heteronhylle	927 192 77 240 115 87 930 930 145 524 582
Бирногош петегорнуш	927 192 77 240 115 87 930 930 145 524 582 81

Botanical name of plant

Home

	Tabl	le 2	(Continued)
--	------	------	-------------

Putrid soreCola acuminata395RheumatismDemettia tripetala103RheumatismAllium cepa218RheumatismHerocarpus mildbraedii174RheumatismLonchocarpus cyanescens137Skin diseaseDacryodes edulis520Skin diseaseDacryodes edulis520Skin diseaseCassia alata930Skin diseaseCassia olata930Skin diseaseCassia tora710Skin diseaseCombretum racemosum323Skin diseaseAlchornea cordifolia822Skin diseaseAlchornea laxiflora58Skin diseaseMaesobotrya barteri154Skin diseaseMaesobotrya barteri173Skin diseaseHomalium letestui177Skin diseaseHomalium letestui177Skin diseaseJatropha curcas121Skin diseaseJatropha curcas121Skin diseaseJatropha curcas133Skin diseaseJatropha curcas121Skin diseaseJatropha curcas133Skin diseaseFleurya aestuans105Skin diseaseBorre avericillata108Skin diseaseFleurya aestuans103Small poxCajanus cajan156Sore throatGnetun africanum232Sore throatGossypium hirsutum275Stomach acheAlium sativum275Stomach acheAlium sativum122Stomach acheCombretoden	Ailment	Botanical name of plant	Home
RheumatismDennetiia tripetala103RheumatismAllium cepa218RheumatismPterocorpus mildbraedii174RheumatismLonchocarpus cyanescens137Skin diseaseDacryodes edulis520Skin diseaseDacryodes klaineana480Skin diseaseCassia otata930Skin diseaseCassia otata930Skin diseaseCombretum racemosum323Skin diseaseCombretum racemosum323Skin diseaseAlchornea laxiflora58Skin diseaseAlchornea laxiflora58Skin diseaseMaesobotrya barteri154Skin diseaseMaesobotrya dusenii173Skin diseaseMaesobotrya dusenii177Skin diseaseJatropha curcas121Skin diseaseJatropha curcas121Skin diseaseLasianthera africana279Skin diseaseEugenia uniflora105Skin diseaseEugenia uniflora105Skin diseaseFleurya aestuans103Small poxCajanus cajan156Sore throatGorsyptiam hirsutium275Stomach acheAllium sativum122Stomach acheCoinwar gratissinum178Stomach acheCoinwar gratissinum178Stomach acheCoinwar gratissinum178Stomach acheCoinwar gratissinum175Stomach acheCoinwar gratissinum178Stomach acheCoinwar gratissinum178	Putrid sore	Cola acuminata	395
RheumatismAllium cepa218RheumatismPterocarpus mildbraedii174RheumatismLonchocarpus cyanescens137Skin diseaseCissus quadrangularis82Skin diseaseDacryodes edulis520Skin diseaseDacryodes klaineana480Skin diseaseCassia lata930Skin diseaseCassia lata930Skin diseaseCassia lata930Skin diseaseCombretum racemosum323Skin diseaseAlchornea cordifolia822Skin diseaseAlchornea cordifolia822Skin diseaseMaesobotrya barteri154Skin diseaseMaesobotrya barteri153Skin diseaseMaesobotrya dusenii173Skin diseaseJatropha curcas121Skin diseaseJatropha curcas121Skin diseaseSymphonia globulifera75Skin diseaseEugenia uniflora105Skin diseaseBorreria verticillata108Skin diseaseFleurya aestuans103Skin diseaseFleurya aestuans103Sore throatGnetum africanum232Sore throatGonstypium hirsutium275Stomach acheAllium sativum212Stomach acheAllium sativum222Stomach acheAllium sativum232Stomach acheCirus aurantfolia900Stomach acheCajanus cajan156Toomach acheCombretodendrum macrocarpum93 <t< td=""><td>Rheumatism</td><td>Dennettia tripetala</td><td>103</td></t<>	Rheumatism	Dennettia tripetala	103
RheumatismPterocarpus mildbraedii174RheumatismLonchocarpus cyanescens137Skin diseaseCissus quadrangularis82Skin diseaseDacryodes edulis520Skin diseaseDacryodes edulis520Skin diseaseCassia alata930Skin diseaseCassia alata930Skin diseaseCassia alata930Skin diseaseCassia alata930Skin diseaseCombretum racemosum323Skin diseaseAlchornea cordifolia822Skin diseaseAlchornea laxiflora58Skin diseaseMaesobotrya barteri154Skin diseaseMaesobotrya barteri173Skin diseaseMaesobotrya barteri173Skin diseaseHomalium letestui177Skin diseaseHomalium letestui177Skin diseaseLasianthera africana279Skin diseaseEugenia uniflora105Skin diseaseBorreria verticillata108Skin diseaseFleurya aestuans103Small poxCajauus cajan156Sore throatGentum africanum232Sore throatGentum africanum232Sore throatGentum africanum232Stomach acheOcimum gratissimum718Stomach acheCoimum gratissimum718Stomach acheCoimum gratissimum718Stomach acheCoimum gratissimum718Stomach acheCoimum gratissimum718	Rheumatism	Allium cepa	218
RheumatismLonchocarpus cyanescens137Skin diseaseCissus quadrangularis82Skin diseaseDacryodes edulis520Skin diseaseDacryodes klaineana480Skin diseaseCassia lata930Skin diseaseCassia lata930Skin diseaseCassia lata930Skin diseaseCombretum racemosum323Skin diseaseTridax procumbens602Skin diseaseAlchornea cordífolia822Skin diseaseAlchornea cordífolia822Skin diseaseAlchornea laxiflora58Skin diseaseMaesobotrya barteri154Skin diseaseMaesobotrya barteri173Skin diseaseJatropha curcas121Skin diseaseJatropha curcas121Skin diseaseJatropha curcas121Skin diseaseSymphonia globulifera75Skin diseaseEugenia uniflora105Skin diseaseBorreria verticillata108Skin diseaseBorreria verticillata108Skin diseaseFleurya aestuans103Small poxCajanus cajan156Sore throatGotsynpin hirsutium232Sore throatGotsynpin hirsutium232Stomach acheOcimum gratissimum718Stomach acheZinguise raficinale612Stomach acheZinguise raficinale612Stomach acheZinguise raficinale612Stomach acheZinguise raficinal13	Rheumatism	Pterocarpus mildbraedii	174
Skin diseaseCissus quadrangularis82Skin diseaseDacryodes edulis520Skin diseaseDacryodes klaineana480Skin diseaseCassia lata930Skin diseaseCassia lata930Skin diseaseConsia lata930Skin diseaseConsia lata930Skin diseaseCombretum racemosum323Skin diseaseAlchornea cordifolia822Skin diseaseAlchornea laxiflora58Skin diseaseMaesobotrya barteri154Skin diseaseMaesobotrya barteri173Skin diseaseManhot esculenta713Skin diseaseJatropha curcas121Skin diseaseJatropha curcas133Skin diseaseJatropha curcas135Skin diseaseBarerajeura tetraptera498Skin diseaseJatropha curcas93Skin diseaseBarerajeura tetraptera498Skin diseaseFleurya aestuans103Skin diseaseFleurya aestuans103Skin diseaseGrainus cajan156SoresCaladium bicolor604Sore throatGotsynium hirsutium232Stomach acheAlli	Rheumatism	Lonchocarpus cyanescens	137
Skin diseaseDacryodes elulis520Skin diseaseDacryodes klaineana480Skin diseaseCassia lata930Skin diseaseCassia tora710Skin diseaseCombretum racemosum323Skin diseaseTridax procumbens602Skin diseaseAlchornea laxifora58Skin diseaseAlchornea laxifora58Skin diseaseMaesobotrya barteri154Skin diseaseMaesobotrya barteri173Skin diseaseMaesobotrya dusenii173Skin diseaseManhot esculenta713Skin diseaseJatropha curcas121Skin diseaseJatropha curcas121Skin diseaseSymphonia globulifera75Skin diseaseEugenia uniflora105Skin diseaseEugenia uniflora105Skin diseaseBorreria verticillata108Skin diseaseFleurya aestuans103Small poxCajanus cajan156SoresCaladium bicolor604Sore throatGnetum africanum232Sore throatGnetum africanum232Stomach acheAllium cepa175Stomach acheCitrus aurantifolia900Stomach acheCombretodendrum macrocarpum93Stomach acheCitrus aurantifolia900Stomach acheCombretodendrum macrocarpum93Stomach acheCombretodendrum macrocarpum93Stomach acheCombretodendrum macrocarpum <td< td=""><td>Skin disease</td><td>Cissus quadrangularis</td><td>82</td></td<>	Skin disease	Cissus quadrangularis	82
Skin diseaseDacryodes klaineana480Skin diseaseCassia alata930Skin diseaseCassia alata930Skin diseaseCassia tora710Skin diseaseCombretum racemosum323Skin diseaseTridax procumbens602Skin diseaseAlchornea cordifolia822Skin diseaseAlchornea laxiflora58Skin diseaseMaesobotrya barteri154Skin diseaseMaesobotrya barteri173Skin diseaseMathot esculenta713Skin diseaseJatropha curcas121Skin diseaseJatropha curcas121Skin diseaseLatropha curcas121Skin diseaseLatropha curcas121Skin diseaseLagenia africana279Skin diseaseEugenia uniflora105Skin diseaseBorreria verticillata108Skin diseaseFleurya aestuans103Small poxCajanus cajan156Sore sCaladium bicolor604Sore throatGnetum africanum232Sore throatGnetum africanum232Stomach acheAliwa sariuma718Stomach acheCombretodendrum macrocarpum93Stomach acheAlium satium110Stomach acheCirus aurantifolia900Stomach acheAlium capa175Stomach acheCirus aurantifolia102Stomach achePentaclethra macrophylla156Tooth ache <td< td=""><td>Skin disease</td><td>Dacryodes edulis</td><td>520</td></td<>	Skin disease	Dacryodes edulis	520
Skin diseaseCassia tora930Skin diseaseCassia tora710Skin diseaseCombretum racemosum323Skin diseaseTridax procumbens602Skin diseaseAlchornea cordifolia822Skin diseaseAlchornea laxiflora58Skin diseaseMaesobotrya barteri154Skin diseaseMaesobotrya dusenii173Skin diseaseMaesobotrya dusenii173Skin diseaseManhot esculenta713Skin diseaseJatropha curcas121Skin diseaseJatropha curcas121Skin diseaseJatropha curcas75Skin diseaseJatropha curcas75Skin diseaseLasianthera africana279Skin diseaseLasianthera africana105Skin diseaseBorreria verticillata108Skin diseaseBorreria verticillata108Skin diseaseFleurya aestuans103Small poxCalaus cajan156Sore throatGnetum africanum232Sore throatGnetum africanum232Stomach acheOcimum gratissinum718Stomach acheAllium sativum122Stomach acheZingiber officinale612Stomach acheZingiber officinale612Stomach acheZingiber officinale110UlcerAchyranthes aspera89UlcerMicodesmis puberula139UlcerMicodesmis puberula139Ulcer <td< td=""><td>Skin disease</td><td>Dacryodes klaineana</td><td>480</td></td<>	Skin disease	Dacryodes klaineana	480
Skin diseaseCassia tora710Skin diseaseCombretum racemosum323Skin diseaseTridax procumbens602Skin diseaseAlchornea cordifolia822Skin diseaseAlchornea laxiflora58Skin diseaseMaesobotrya barteri154Skin diseaseMaesobotrya dusenii173Skin diseaseMaesobotrya dusenii173Skin diseaseMaesobotrya dusenii177Skin diseaseJatropha curcas121Skin diseaseJatropha curcas121Skin diseaseJatropha curcas121Skin diseaseLasianthera africana279Skin diseaseTetrapleura tetraptera498Skin diseaseEugenia uniflora105Skin diseaseBorreria verticillata108Skin diseaseFleurya aestuans103Small poxCajanus cajan156SoresCaladium bicolor604Sore throatGetum africanum232Sore throatGetum africanum232Stomach acheAllum sativum122Stomach acheCitrus aurantifolia900Stomach acheCitrus aurantifolia900Stomach acheCombretodendrum macrocarpum93Stomach acheCitrus aurantifolia900Stomach acheCitrus aurantifolia900Stomach acheCitrus aurantifolia900Stomach acheCitrus aurantifolia910UlcerAchyranthes aspera89 </td <td>Skin disease</td> <td>Cassia alata</td> <td>930</td>	Skin disease	Cassia alata	930
Skin diseaseCombretum racemosum323Skin diseaseTridax procumbens602Skin diseaseAlchornea cordifolia822Skin diseaseAlchornea laxiflora58Skin diseaseMaesobotrya barteri154Skin diseaseMaesobotrya barteri173Skin diseaseMaesobotrya dusenii173Skin diseaseMarihot esculenta713Skin diseaseManihot esculenta713Skin diseaseJatropha curcas121Skin diseaseJatropha curcas121Skin diseaseLasianthera africana279Skin diseaseLasianthera africana279Skin diseaseEugenia uniflora105Skin diseaseBorreria verticillata108Skin diseaseBorreria verticillata103Small poxCajanus cajan156SoresCaladium bicolor604Sore throatGenetum africanum232Somach acheOcimum gratissimum718Stomach acheCitrus aurantifolia900Stomach acheCitrus aurantifolia900Stomach acheCombretodendrum macrocarpum93Stomach acheConbretodendrum macrocarpum93Stomach acheConbretodendrum macrocarpum93Stomach acheCitrus aurantifolia900Stomach acheConbretodendrum macrocarpum93Stomach achePentaclethra macrophylla116Tooth achePentaclethra macrophylla139 <td< td=""><td>Skin disease</td><td>Cassia tora</td><td>710</td></td<>	Skin disease	Cassia tora	710
Skin diseaseTridax procumbens602Skin diseaseAlchornea laxiflora\$8Skin diseaseAlchornea laxiflora\$8Skin diseaseMaesobotrya barteri154Skin diseaseMaesobotrya dusenii173Skin diseaseManihot esculenta713Skin diseaseJatropha curcas121Skin diseaseHomalum letestui177Skin diseaseSymphonia globulifera75Skin diseaseLasianthera africana279Skin diseaseEugenia uniflora105Skin diseaseBorreia verticillata108Skin diseaseBorreia verticillata108Skin diseaseFleurya aestuans103Small poxCajanus cajan156SoresCaladium bicolor604Sore throatGorsynium frizanum232Sore throatGossynium hirsutium222Stomach acheAllium sativum122Stomach acheZingiber officinale612Stomach acheZingiber officinale612Stomach acheFlegara macrophylla156Tooth acheFagara macrophylla156Tooth acheFagara macrophylla156Tooth acheFagara macrophylla156UlcerMacsapientum684UlcerMacsapientum684UlcerMicrodesmis puberula139UlcerMicrodesmis puberula139UlcerKajara macrophylla156Tooth acheFagara mac	Skin disease	Combretum racemosum	323
Skin diseaseAlchornea laxiflora\$82Skin diseaseAlchornea laxiflora58Skin diseaseMaesobotrya barteri154Skin diseaseMaesobotrya barteri173Skin diseaseMarihot esculenta713Skin diseaseManihot esculenta713Skin diseaseJatropha curcas121Skin diseaseHomalium letestui177Skin diseaseLasianthera africana279Skin diseaseLasianthera africana279Skin diseaseEugenia uniflora105Skin diseaseBorreria verticillata108Skin diseaseBorreria verticillata108Skin diseaseFleurya aestuans103Small poxCajanus cajan156SoresCaladium bicolor604Sore throatGossypium hirsutium232Sore throatGossypium hirsutium222Stomach acheMaluvastrum coromandelianum222Stomach acheCitrus aurantifolia900Stomach acheZingiber officinale612Stomach acheFagara macrophylla110UlcerAchyranthes aspera89UlcerMicodesmis puberula139UlcerIxora coccinea121VermifugeRicinus communis603VermifugeRicinus communis603VermifugeRicinus communis139UlcerIxora coccinea121VermifugeRicinus communis52Weaning agent <t< td=""><td>Skin disease</td><td>Tridax procumbens</td><td>602</td></t<>	Skin disease	Tridax procumbens	602
Skin diseaseAlchornea laxiflora58Skin diseaseMaesobotrya barteri154Skin diseaseMaesobotrya dusenii173Skin diseaseManihot esculenta713Skin diseaseJatropha curcas121Skin diseaseJatropha curcas121Skin diseaseJatropha curcas121Skin diseaseLasianthera africana279Skin diseaseLasianthera africana279Skin diseaseEugenia uniflora105Skin diseaseBorreria verticillata108Skin diseaseBorreria verticillata108Skin diseaseFleurya aestuans103Skin diseaseFleurya aestuans103SoresCaladium bicolor604Sore throatGoessypium hirsutium275Stomach acheOcimum gratissimum718Stomach acheOcimum gratissimum122Stomach acheCingiber officinale612Stomach acheCingiber officinale612Stomach achePentaclethra macrophylla156Tooth acheFagara macrophylla110UlcerMora sapientum684UlcerSolanum torvum97UlcerMicrodesmis puberula139UlcerMicrodesmis puberula139UlcerVora coccinea121VermifugeAlium cepa118Waist painDistemonanthus benthamianus177Weaning agentJustica insularis52Weaning agent <td>Skin disease</td> <td>Alchornea cordifolia</td> <td>822</td>	Skin disease	Alchornea cordifolia	822
Skin diseaseMaesobotrya barteri154Skin diseaseManihot esculenta713Skin diseaseManihot esculenta713Skin diseaseJatropha curcas121Skin diseaseJatropha curcas121Skin diseaseHomalium letestui177Skin diseaseLasianthera africana279Skin diseaseEugenia uniflora105Skin diseaseEugenia uniflora105Skin diseaseBorreria verticillata108Skin diseaseFleurya aestuans103Small poxCajanus cajan156SoresCaladium bicolor604Sore throatGossypium hirsutium232Sore throatGossypium hirsutium232Sore throatGossypium hirsutium222Stomach acheClinus aurantifolia900Stomach acheZingiber officinale612Stomach acheZingiber officinale612Stomach acheFagara macrophylla110UlcerMacsapientum123UlcerMusa sapientum603VermifugeAllium cepa118Waist painGuare ahongsonni123Waist painGuare ahongsonni1	Skin disease	Alchornea laxiflora	58
Skin diseaseMaesobotrya dusenii173Skin diseaseManihot esculenta713Skin diseaseJatropha curcas121Skin diseaseHomalium letestui177Skin diseaseEasianthera africana279Skin diseaseLasianthera africana279Skin diseaseEugenia uniflora105Skin diseaseBugenia uniflora105Skin diseaseAbrus precatorius93Skin diseaseBorreria verticillata108Skin diseaseFleurya aestuans103Small poxCajanus cajan156SoresCaladium bicolor604Sore throatHeliotropium indicum196Sore throatGossypium hirsutium232Sore throatGossypium hirsutium212Stomach acheOcimum gratissimum718Stomach acheClirus aurantifolia900Stomach acheZingiber officinale612Stomach achePentaclethra macrophylla110UlcerMacs aspientum684UlcerMusa sapientum684UlcerKordesmin suberula139UlcerMicrodesmis puberula139UlcerJustica insularis171Weaning agentJustica insularis177Weaning agentJustica insularis52Weaning agentJustica insularis52Weaning agentJustica insularis52Weaning agentJustica insularis52Weaning agent<	Skin disease	Maesobotrya barteri	154
Skin diseaseManihot esculenta713Skin diseaseJatropha curcas121Skin diseaseJatropha curcas121Skin diseaseHomalium letestui177Skin diseaseLasianthera africana279Skin diseaseLasianthera africana279Skin diseaseEugenia uniflora105Skin diseaseBorreria verticillata108Skin diseaseBorreria verticillata108Skin diseaseFleurya aestuans103Small poxCajanus cajan156SoresCaladium bicolor604Sore throatGnetum africanum232Sore throatGossypium hirsutium275Stomach acheOcimum gratissimum718Stomach acheClimus aurantifolia900Stomach acheZingiber officinale612Stomach achePentaclethra macrophylla156Tooth acheFagara macrophylla110UlcerMas sapientum93Stomach useFagara macrophylla110UlcerMas sapientum684UlcerMas sapientum684UlcerJolanum torvum97UlcerMicrodesmis puberula139Waist painGuarea thompsonni123Waist painGuarea thompsonni123Waist painGuarea thompsonni123Waist painGuarea thompsonni123Waist painGuarea thompsonni123Waist painGuarea thompsonni1	Skin disease	Maesobotrya dusenii	173
Skin diseaseJatropha curcas121Skin diseaseHomalium letestui177Skin diseaseLasianthera africana279Skin diseaseLasianthera africana279Skin diseaseEugenia uniflora105Skin diseaseEugenia uniflora105Skin diseaseBorreria verticillata108Skin diseaseBorreria verticillata108Skin diseaseFleurya aestuans103Small poxCajanus cajan156SoresCaladium bicolor604Sore throatHeliotropium indicum196Sore throatGossypium hirsutium275Stomach acheOcimum gratissimum718Stomach acheAllium sativum122Stomach acheCairgiber officinale612Stomach acheZingiber officinale612Stomach achePentaclethra macrophylla156Tooth acheFagara macrophylla156Tooth acheFagara macrophylla156Tooth acheFagara macrophylla139UlcerMusa sapientum684UlcerSolanum torvum97UlcerMicrodesmis puberula139ViereingeAllium cepa117Waist painGuarea thompsonni123Waist painDistemonanthus benthamianus177Weaning agentJustica insularis52Weaning agentJustica insularis52Weaning agentJustica insularis52Weaning agent<	Skin disease	Manihot esculenta	713
Skin diseaseHomalium letestui177Skin diseaseSymphonia globulifera75Skin diseaseLasianthera africana279Skin diseaseTetrapleura tetraptera498Skin diseaseEugenia uniflora105Skin diseaseAbrus precatorius93Skin diseaseBorreria verticillata108Skin diseaseFleurya aestuans103Small poxCajanus cajan156SoresCaladium bicolor604Sore throatGnetum africanum232Sore throatGnetum africanum232Sore throatGossypium hirsutium275Stomach acheOcimum gratissimum718Stomach acheZingiber officinale612Stomach acheZingiber officinale612Stomach acheCitrus aurantifolia900Stomach achePentaclethra macrophylla156Tooth acheFagara macrophylla110UlcerMusa sapientum684UlcerMusa sapientum684UlcerKora coccinea121VermifugeRicinus communis603VermifugeAllium cepa118Waist painDistemonanthus benthamianus177Weaning agentAlfofittonia silvetris149WhitlowSida acuta472WoundCaladium bicolor604WoundCaladium bicolor604WoundCostus afer283YawLanchocarnus cvanescens89 <td>Skin disease</td> <td>Jatropha curcas</td> <td>121</td>	Skin disease	Jatropha curcas	121
Skin diseaseSymphonia globulifera75Skin diseaseLasianthera africana279Skin diseaseTetrapleura tetraptera498Skin diseaseEugenia uniflora105Skin diseaseAbrus precatorius93Skin diseaseBorreria verticillata108Skin diseaseFleurya aestuans103Small poxCajanus cajan156SoresCaladium bicolor604Sore throatHeliotropium indicum196Sore throatGnetum africanum232Sore throatGostypium hirsutium275Stomach acheOcimum gratissimum718Stomach acheAllium sativum122Stomach acheCitrus aurantifolia900Stomach acheZingiber officinale612Stomach acheZingiber officinale612Stomach achePentaclethra macrocarpum93Stomach acheFagara macrophylla110UlcerAchyranthes aspera89UlcerMicrodesmis puberula139UlcerIxora coccinea121VermifugeRicinus communis603VermifugeAllium cepa118Waist painDistemonanthus benthamianus177Weaning agentJustica insularis52Weaning agentJustica insularis356WoundCaladium bicolor604WoundCostus afer283YawLanchocarrus cvanescens89	Skin disease	Homalium letestui	177
Skin diseaseLasianthera africana279Skin diseaseTetrapleura tetraptera498Skin diseaseEugenia uniflora105Skin diseaseAbrus precatorius93Skin diseaseBorreria verticillata108Skin diseaseFleurya aestuans103Small poxCajanus cajan156SoresCaladium bicolor604Sore throatHeliotropium indicum196Sore throatGnetum africanum232Sore throatGossypium hirsutium275Stomach acheOcimum gratissimum718Stomach acheAllium sativum222Stomach acheCitrus aurantifolia900Stomach acheZingiber officinale612Stomach acheCombretodendrum macrocarpum93Stomach acheFagara macrophylla110UlcerAchyranthes aspera89UlcerMicrodesmis puberula139UlcerKora coccinea121VermifugeRicinus communis603VermifugeAllium cepa118Waist painDistemonanthus benthamianus177Weaning agentJustica insularis52Weaning agentAfrofittonia silvetris149WhitlowSida acuta472WoundCaladium bicolor604WoundCostus afer283YawLanchocarrus cvanescens89	Skin disease	Symphonia globulifera	75
Skin diseaseTetrapleura tetraptera498Skin diseaseEugenia uniflora105Skin diseaseAbrus precatorius93Skin diseaseBorreria verticillata108Skin diseaseFleurya aestuans103Small poxCajanus cajan156SoresCaladium bicolor604Sore throatHeliotropium indicum196Sore throatGoesypium hirsutium232Sore throatGossypium hirsutium275Stomach acheOcimum gratissimum718Stomach acheAllium sativum222Stomach acheZingiber officinale612Stomach acheZingiber officinale612Stomach acheCombretodendrum macrocarpum93Stomach upsetAllium cepa175Tooth acheFagara macrophylla156Tooth acheFagara macrophylla110UlcerMicrodesmis puberula139UlcerMicrodesmis puberula139UlcerKora coccinea121VermifugeRicinus communis603WeintigeAllium cepa118Waist painDistemonanthus benthamianus177Weaning agentAfrofittonia silvetris149WhitlowSida acuta472WoundCostus afer283YawLonchocarpus cyanescens89	Skin disease	Lasianthera africana	279
Skin diseaseEugenia uniflora105Skin diseaseAbrus precatorius93Skin diseaseBorreria verticillata108Skin diseaseFleurya aestuans103Small poxCajanus cajan156SoresCaladium bicolor604Sore throatHeliotropium indicum196Sore throatGnetum africanum232Sore throatGossypium hirsutium275Stomach acheOcimum gratissimum718Stomach acheAllium sativum122Stomach acheKingiber officinale612Stomach acheZingiber officinale612Stomach acheZingiber officinale612Stomach achePentaclethra macrocarpum93Stomach upsetAllium cepa175Tooth acheFagara macrophylla156Tooth acheFagara macrophylla156UlcerMicrodesmis puberula139UlcerMicrodesmis puberula139UlcerKora coccinea121VermifugeRicinus communis603VermifugeAllium cepa118Waist painDistemonanthus benthamianus177Weaning agentAfrofittonia silvetris149WhitlowSida acuta472WoundCostus afer283YawLonchocarpus cyanescens89	Skin disease	Tetrapleura tetraptera	498
Skin diseaseAbrus precatorius93Skin diseaseBorreria verticillata108Skin diseaseFleurya aestuans103Small poxCajanus cajan156SoresCaladium bicolor604Sore throatHeliotropium indicum196Sore throatGnetum africanum232Sore throatGossypium hirsutium275Stomach acheOcinum gratissimum718Stomach acheAllium sativum222Stomach acheCitrus aurantifolia900Stomach acheZingiber officinale612Stomach acheZingiber officinale612Stomach achePentaclethra macrocarpum93Stomach achePentaclethra macrophylla156Tooth acheFagara macrophylla156Tooth acheFagara macrophylla110UlcerMala sapientum684UlcerSolanum torvum97UlcerKora coccinea121VermifugeAllium cepa139UlcerIsora coccinea121VermifugeAllium cepa118Waist painDistemonanthus benthamianus177Weaning agentJustica insularis52Weaning agentAfrofittonia silvetris149WhitlowSida acuta472WoundCaladium bicolor604WoundCostus afer283YawLonchocarnus cvanescens89	Skin disease	Eugenia uniflora	105
Skin diseaseBorreria verticillata108Skin diseaseFleurya aestuans103Small poxCajanus cajan156SoresCaladium bicolor604Sore throatHeliotropium indicum196Sore throatGnetum africanum232Sore throatGossypium hirsutium275Stomach acheOcimum gratissimum718Stomach acheAllium sativum222Stomach acheCaingiber officinale612Stomach acheZingiber officinale612Stomach acheCombretodendrum macrocarpum93Stomach achePentaclethra macrophylla156Tooth acheFagara macrophylla110UlcerAchyranthes aspera89UlcerMusa sapientum684UlcerSolanum torvum97UlcerKora coccinea121VermifugeRicinus communis603VermifugeAllium cepa118Waist painDistemonanthus benthamianus177Weaning agentJustica insularis52Weaning agentAfrofittonia silvetris149WhitlowSida acuta472WoundCaladium bicolor604WoundCostus afer283	Skin disease	Abrus precatorius	93
Skin diseaseFleurya aestuans103Small poxCajanus cajan156SoresCaladium bicolor604Sore throatHeliotropium indicum196Sore throatGnetum africanum232Sore throatGossypium hirsutium275Stomach acheOcimum gratissimum718Stomach acheAllium sativum122Stomach acheMalvastrum coromandelianum222Stomach acheCitrus aurantifolia900Stomach acheZingiber officinale612Stomach acheCombretodendrum macrocarpum93Stomach achePentaclethra macrophylla156Tooth achePentaclethra macrophylla156Tooth acheFagara macrophylla110UlcerMus sapientum684UlcerSolanum torvum97UlcerIxora coccinea121VermifugeRicinus communis603VermifugeAllium cepa118Waist painDistemonanthus benthamianus177Weaning agentJustica insularis52Weaning agentJustica insularis52WoundCaladium bicolor604WoundCostus afer283YawLorchocarpus cynescens89	Skin disease	Borreria verticillata	108
Small poxCajanus cajan156SoresCaladium bicolor604Sore throatHeliotropium indicum196Sore throatGnetum africanum232Sore throatGossypium hirsutium275Stomach acheOcimum gratissimum718Stomach acheAllium sativum122Stomach acheMalvastrum coromandelianum222Stomach acheCitrus aurantifolia900Stomach acheZingiber officinale612Stomach acheCombretodendrum macrocarpum93Stomach upsetAllium cepa175Tooth achePentaclethra macrophylla156Tooth acheFagara macrophylla110UlcerMicrodesmis puberula139UlcerNicrodesmis puberula139UlcerIxora coccinea121VermifugeRicinus communis603VermifugeAllium cepa118Waist painDistemonanthus benthamianus177Weaning agentJustica insularis52Weaning agentAlrofittonia silvetris149WhitlowSida acuta472WoundCaladium bicolor604WoundCostus afer283	Skin disease	Fleurya aestuans	103
SoresCaladium bicolor604Sore throatHeliotropium indicum196Sore throatGnetum africanum232Sore throatGossypium hirsutium275Stomach acheOcimum gratissimum718Stomach acheAllium sativum122Stomach acheMalvastrum coromandelianum222Stomach acheCitrus aurantifolia900Stomach acheZingiber officinale612Stomach acheCombretodendrum macrocarpum93Stomach achePentaclethra macrophylla156Tooth acheFagara macrophylla110UlcerAchyranthes aspera89UlcerMusa sapientum684UlcerSolanum torvum97UlcerIxora coccinea121VermifugeRicinus communis603VermifugeAllium cepa118Waist painDistemonanthus benthamianus177Weaning agentJustica insularis52Weaning agentAfrofittonia silvetris149WhitlowSida acuta472WoundCaladium bicolor604WoundCostus afer283YawLorekarpus cyanescens89	Small pox	Cajanus cajan	156
Sore throatHeliotropium indicum196Sore throatGnetum africanum232Sore throatGossypium hirsutium275Stomach acheOcimum gratissimum718Stomach acheAllium sativum122Stomach acheMalvastrum coromandelianum222Stomach acheCitrus aurantifolia900Stomach acheZingiber officinale612Stomach acheZingiber officinale612Stomach acheCombretodendrum macrocarpum93Stomach upsetAllium cepa175Tooth achePentaclethra macrophylla110UlcerAchyranthes aspera89UlcerMusa sapientum684UlcerSolanum torvum97UlcerIxora coccinea121VermifugeRicinus communis603VermifugeAllium cepa118Waist painDistemonanthus benthamianus177Weaning agentJustica insularis52Weaning agentAfrofittonia silvetris149WhitlowSida acuta472WoundCaladium bicolor604WoundCostus afer283YawLonchocarpus cyanescens89	Sores	Caladium bicolor	604
Sore throatGnetum africanum232Sore throatGossypium hirsutium275Stomach acheOcimum gratissimum718Stomach acheAllium sativum122Stomach acheMalvastrum coromandelianum222Stomach acheCitrus aurantifolia900Stomach acheZingiber officinale612Stomach acheCombretodendrum macrocarpum93Stomach acheCombretodendrum macrocarpum93Stomach upsetAllium cepa175Tooth achePentaclethra macrophylla110UlcerAchyranthes aspera89UlcerMusa sapientum684UlcerSolanum torvum97UlcerIxora coccinea121VermifugeRicinus communis603VermifugeAllium cepa118Waist painDistemonanthus benthamianus177Weaning agentJustica insularis52Weaning agentJustica insularis52WoundCaladium bicolor604WoundCostus afer283YawLonchorarpus cyanescens89	Sore throat	Heliotropium indicum	196
Sore throatGossypium hirsutium275Stomach acheOcimum gratissimum718Stomach acheAllium sativum122Stomach acheMalvastrum coromandelianum222Stomach acheCitrus aurantifolia900Stomach acheZingiber officinale612Stomach acheCombretodendrum macrocarpum93Stomach upsetAllium cepa175Tooth achePentaclethra macrophylla156Tooth acheFagara macrophylla110UlcerAchyranthes aspera89UlcerSolanum torvum97UlcerNicrodesmis puberula139UlcerIxora coccinea121VermifugeRicinus communis603VermifugeAllium cepa118Waist painDistemonanthus benthamianus177Weaning agentJustica insularis52Weaning agentAfrofittonia silvetris149WhitlowSida acuta472WoundCaladium bicolor604WoundCostus afer283	Sore throat	Gnetum africanum	232
Stomach acheOcimum gratissimum718Stomach acheAllium sativum122Stomach acheMalvastrum coromandelianum222Stomach acheCitrus aurantifolia900Stomach acheZingiber officinale612Stomach acheZingiber officinale612Stomach acheCombretodendrum macrocarpum93Stomach upsetAllium cepa175Tooth achePentaclethra macrophylla156Tooth acheFagara macrophylla110UlcerAchyranthes aspera89UlcerMusa sapientum684UlcerSolanum torvum97UlcerIxora coccinea121VermifugeRicinus communis603VermifugeAllium cepa118Waist painDistemonanthus benthamianus177Weaning agentJustica insularis52Weaning agentAfrofittonia silvetris149WhitlowSida acuta472WoundCaladium bicolor604WoundCostus afer283YawLonchoramus cyanescens89	Sore throat	Gossypium hirsutium	275
Stomach acheAllium sativum122Stomach acheMalvastrum coromandelianum222Stomach acheCitrus aurantifolia900Stomach acheZingiber officinale612Stomach acheCombretodendrum macrocarpum93Stomach upsetAllium cepa175Tooth achePentaclethra macrophylla156Tooth acheFagara macrophylla110UlcerAchyranthes aspera89UlcerMusa sapientum684UlcerSolanum torvum97UlcerIxora coccinea121VermifugeRicinus communis603VermifugeAllium cepa118Waist painDistemonanthus benthamianus177Weaning agentJustica insularis52Weaning agentAfrofittonia silvetris149WhitlowSida acuta472WoundCaladium bicolor604WoundCostus afer283YawLorchocarrus cyanescens89	Stomach ache	Ocimum gratissimum	718
Stomach acheMalvastrum coromandelianum222Stomach acheCitrus aurantifolia900Stomach acheZingiber officinale612Stomach acheCombretodendrum macrocarpum93Stomach upsetAllium cepa175Tooth achePentaclethra macrophylla156Tooth acheFagara macrophylla110UlcerAchyranthes aspera89UlcerMusa sapientum684UlcerSolanum torvum97UlcerIzora coccinea121VermifugeRicinus communis603VermifugeAllium cepa118Waist painDistemonanthus benthamianus177Weaning agentJustica insularis52WoundCaladium bicolor604WoundCostus afer283YawLonchoranrus cyanescens89	Stomach ache	Allium sativum	122
Stomach acheCitrus aurantifolia900Stomach acheZingiber officinale612Stomach acheCombretodendrum macrocarpum93Stomach upsetAllium cepa175Tooth achePentaclethra macrophylla156Tooth acheFagara macrophylla110UlcerAchyranthes aspera89UlcerMusa sapientum684UlcerSolanum torvum97UlcerMicrodesmis puberula139UlcerIxora coccinea121VermifugeRicinus communis603VermifugeAllium cepa118Waist painGuarea thompsonni123Waist painDistemonanthus benthamianus177Weaning agentJustica insularis52Weaning agentAfrofitonia silvetris149WhitlowSida acuta472WoundCaladium bicolor604WoundCostus afer283YawLonchoramus cyanescens89	Stomach ache	Malvastrum coromandelianum	222
Stomach acheZingiber officinale612Stomach acheCombretodendrum macrocarpum93Stomach upsetAllium cepa175Tooth achePentaclethra macrophylla156Tooth acheFagara macrophylla110UlcerAchyranthes aspera89UlcerMusa sapientum684UlcerSolanum torvum97UlcerMicrodesmis puberula139UlcerIxora coccinea121VermifugeRicinus communis603VermifugeAllium cepa118Waist painGuarea thompsonni123Waist painDistemonanthus benthamianus177Weaning agentJustica insularis52Weaning agentAfrofittonia silvetris149WhitlowSida acuta472WoundCaladium bicolor604WoundCostus afer283YawLonchorarrus cyanescens89	Stomach ache	Citrus aurantifolia	900
Stomach acheCombretodendrum macrocarpum93Stomach upsetAllium cepa175Tooth achePentaclethra macrophylla156Tooth acheFagara macrophylla110UlcerAchyranthes aspera89UlcerMusa sapientum684UlcerSolanum torvum97UlcerMicrodesmis puberula139UlcerIxora coccinea121VermifugeRicinus communis603VermifugeAllium cepa118Waist painGuarea thompsonni123Waist painDistemonanthus benthamianus177Weaning agentJustica insularis52Weaning agentAfrofittonia silvetris149WhitlowSida acuta472WoundCaladium bicolor604WoundCostus afer283YawLonchorarpus cyanescens89	Stomach ache	Zingiber officinale	612
Stomach upsetAllium cepa175Tooth achePentaclethra macrophylla156Tooth acheFagara macrophylla110UlcerAchyranthes aspera89UlcerMusa sapientum684UlcerSolanum torvum97UlcerMicrodesmis puberula139UlcerIxora coccinea121VermifugeRicinus communis603VermifugeAllium cepa118Waist painGuarea thompsonni123Waist painDistemonanthus benthamianus177Weaning agentJustica insularis52Weaning agentAfrofitonia silvetris149WhitlowSida acuta472WoundCaladium bicolor604WoundCostus afer283YawLonchocarrus cyanescens89	Stomach ache	Combretodendrum macrocarpum	93
Tooth achePentaclethra macrophylla156Tooth acheFagara macrophylla110UlcerAchyranthes aspera89UlcerMusa sapientum684UlcerSolanum torvum97UlcerMicrodesmis puberula139UlcerIxora coccinea121VermifugeRicinus communis603VermifugeAllium cepa118Waist painGuarea thompsonni123Waist painDistemonanthus benthamianus177Weaning agentJustica insularis52Weaning agentAfrofittonia silvetris149WhitlowSida acuta472WoundCaladium bicolor604WoundCostus afer283YawLonchocarrus cyanescens89	Stomach upset	Allium cepa	175
Tooth acheFagara macrophylla110UlcerAchyranthes aspera89UlcerMusa sapientum684UlcerSolanum torvum97UlcerMicrodesmis puberula139UlcerIxora coccinea121VermifugeRicinus communis603VermifugeAllium cepa118Waist painGuarea thompsonni123Waist painDistemonanthus benthamianus177Weaning agentJustica insularis52Weaning agentAfrofittonia silvetris149WhitlowSida acuta472WoundAnchomanes diffornis356WoundCostus afer283YawLonchocarrus cyanescens89	Tooth ache	Pentaclethra macrophylla	156
UlcerAchyranthes aspera89UlcerMusa sapientum684UlcerSolanum torvum97UlcerMicrodesmis puberula139UlcerIxora coccinea121VermifugeRicinus communis603VermifugeAllium cepa118Waist painGuarea thompsonni123Waist painDistemonanthus benthamianus177Weaning agentJustica insularis52Weaning agentAfrofittonia silvetris149WhitlowSida acuta472WoundCaladium bicolor604WoundCostus afer283YawLonchocarrus cyanescens89	Tooth ache	Fagara macrophylla	110
UlcerMusa sapientum684UlcerSolanum torvum97UlcerMicrodesmis puberula139UlcerIxora coccinea121VermifugeRicinus communis603VermifugeAllium cepa118Waist painGuarea thompsonni123Waist painDistemonanthus benthamianus177Weaning agentJustica insularis52Weaning agentAfrofittonia silvetris149WhitlowSida acuta472WoundCaladium bicolor604WoundCostus afer283YawLonchocarnus cyanescens89	Ulcer	Achyranthes aspera	89
UlcerSolanum torvum97UlcerMicrodesmis puberula139UlcerIxora coccinea121VermifugeRicinus communis603VermifugeAllium cepa118Waist painGuarea thompsonni123Waist painDistemonanthus benthamianus177Weaning agentJustica insularis52Weaning agentAfrofittonia silvetris149WhitlowSida acuta472WoundCaladium bicolor604WoundCostus afer283YawLonchocarnus cyanescens89	Ulcer	Musa sapientum	684
UlcerMicrodesmis puberula139UlcerIxora coccinea121VermifugeRicinus communis603VermifugeAllium cepa118Waist painGuarea thompsonni123Waist painDistemonanthus benthamianus177Weaning agentJustica insularis52Weaning agentAfrofittonia silvetris149WhitlowSida acuta472WoundCaladium bicolor604WoundCostus afer283YawLonchorarrus cyanescens89	Ulcer	Solanum torvum	97
UlcerIxora coccinea121VermifugeRicinus communis603VermifugeAllium cepa118Waist painGuarea thompsonni123Waist painDistemonanthus benthamianus177Weaning agentJustica insularis52Weaning agentAfrofittonia silvetris149WhitlowSida acuta472WoundCaladium bicolor604WoundCostus afer283YawLonchorarrus cyanescens89	Ulcer	Microdesmis puberula	139
VermifugeRicinus communis603VermifugeAllium cepa118Waist painGuarea thompsonni123Waist painDistemonanthus benthamianus177Weaning agentJustica insularis52Weaning agentAfrofittonia silvetris149WhitlowSida acuta472WoundAnchomanes diffornis356WoundCaladium bicolor604WoundCostus afer283YawLonchocarrus cyanescens89	Ulcer	Ixora coccinea	121
VermifugeAllium cepa118Waist painGuarea thompsonni123Waist painDistemonanthus benthamianus177Weaning agentJustica insularis52Weaning agentAfrofittonia silvetris149WhitlowSida acuta472WoundAnchomanes diffornis356WoundCaladium bicolor604WoundCostus afer283YawLonchocarnus cyanescens89	Vermifuge	Ricinus communis	603
Waist painGuarea thompsonni123Waist painDistemonanthus benthamianus177Weaning agentJustica insularis52Weaning agentAfrofittonia silvetris149WhitlowSida acuta472WoundAnchomanes diffornis356WoundCaladium bicolor604WoundCostus afer283YawLonchocarnus cyanescens89	Vermifuge	Allium cepa	118
Waist painDistemonanthus benthamianus177Weaning agentJustica insularis52Weaning agentAfrofittonia silvetris149WhitlowSida acuta472WoundAnchomanes diffornis356WoundCaladium bicolor604WoundCostus afer283YawLonchocarnus cyanescens89	Waist pain	Guarea thompsonni	123
Weaning agentJustica insularis52Weaning agentAfrofittonia silvetris149WhitlowSida acuta472WoundAnchomanes diffornis356WoundCaladium bicolor604WoundCostus afer283YawLonchocarpus cyanescens89	Waist pain	Distemonanthus benthamianus	177
Weaning agentAfrofittonia silvetris149WhitlowSida acuta472WoundAnchomanes diffornis356WoundCaladium bicolor604WoundCostus afer283YawLonchocarpus cyanescens89	Weaning agent	Justica insularis	52
WhitlowSida acuta472WoundAnchomanes diffornis356WoundCaladium bicolor604WoundCostus afer283YawLonchocarnus cyanescens89	Weaning agent	Afrofittonia silvetris	149
WoundAnchomanes diffornis356WoundCaladium bicolor604WoundCostus afer283YawLonchocarpus cyanescens89	Whitlow	Sida acuta	472
WoundCaladium bicolor604WoundCostus afer283YawLonchocarpus cyanescens89	Wound	Anchomanes diffornis	356
WoundCostus afer283YawLonchocarnus cyanescens89	Wound	Caladium bicolor	604
Yaw Lonchocarpus cyanescens 89	Wound	Costus afer	283
	Yaw	Lonchocarpus cyanescens	89
Yellow fever Artocarpus communis 215	Yellow fever	Artocarpus communis	215

vomitoria (four countries) and *Combretum racemosum* (four countries).

Some compounds of some of the plant species frequently used for specific ailments (Ip > 0) have been identified and reported in literature. Some of such plants are *Anacardium occidentale*, Vernonia amygdalina, Randia longiflora, Rauwolfia vomitoria, Alstonia boonei, Allium sativum, Spondias mombin, Fagara macrophylla, Uvaria chamae, Carpolobia lutea and Zingiber officinale.

Anacardium occidentale (Anacardiaceae) finds its bark used by the indigenes of Akwa Ibom State to treat malaria (Ip = 3). The bark contains 9–21% tannins (Burkill, 1985), and cardol (Kerharo and Adam, 1974). The fruit and cashew nut shell yield oil which also contains cardol as well as anacardic acid (Burkill, 1985). The use of the oil to treat leprosy and ulcers in Gabon and Senegal has been ascribed to the presence of these compounds (Walker and Silans, 1961; Kerharo and Adam, 1962; Kerharo and Adam, 1974; Lewis and Elvin-Lewis, 1977).

Vernonia amygdalina (Compositae) is widely used against diabetes (Ip = 3) and itching condition (Ip = 1). Vernodalin and vernomygdin have been identified in the plant to treat cancer (Lewis and Elvin-Lewis). The leaves of *Vernonia amygdalina* have been reported to lower blood sugar level in diabetic rabbit and rat (Akah and Okafor, 1992; Nwanjo, 2005). The leaves are not toxic but can produce purgative effect if consumed in large quantity (Iwu, 1993). *Vernonia amygdalina* has also been reported to be cardiotonic and hypotensive (Ayensu, 1978). Recently, sesquiterpene lactones, vernolide and vernodalol identified from the leaves of *Vernonia amygdalina* have been reported to show antimicrobial activities (Erasto et al., 2006).

Randia longiflora (Rubiaceae) is commonly used for oral hygiene (Ip = 3). Three constituents, ursolic acid, randiflorin, a pentacyclic triterpene lactone and randilongin, a rho-coumaric acid ester have been isolated from the leaves and twigs of the plant (Talapatra et al., 1989). The triterpenes isolated may be part of the saponins that account for the frothing nature of the plant when chewed for oral hygiene.

Rauwolfia vomitoria (Apocynaceae) is frequently used for mental illness (Ip = 3). At least 30 alkaloids have been identified in the plant (Trease and Evans, 1989), of which reserpine has been found in the root to show sedative and hypotensive properties, and ajmalicine which exerts activity on sympathetic nervous system (Oliver, 1960; Willaman and Li, 1970; Bouquet and Debray, 1974; Kerharo and Adam, 1974). The sedative property ascribed to reserpine explains its use for mental illness.

Alstonia boonei (Apocynaceae) was recorded for use against malaria (Ip = 3). It is reported to be inferior to Cinchona bark but it elicits no after-effects (Oliver, 1960). The bark contains two indole alkaloids, echitamine and echitamidine which exert a paralyzing effect on the motor nerves, as well as amyrin and lupeol (Goodson, 1932; Oliver, 1960; Irvine, 1961; Bouquet and Debray, 1974; Kerharo and Adam, 1974). Echitamine is also reported as the antimalarial constituent of the plant (Iwu, 1986).

Allium sativum (Liliaceae) was mentioned for four ailments, diabetes (Ip = 2), hypertension (Ip = 2), stomach ache (Ip = 1) and general debility (Ip = 1). Farnsworth and Segelman (1971) listed garlic (*Allium sativum*) as one of the plants showing hypoglycaemic activity. 2-Propenyldisulphide and 3,5-allylcysteine sulphoxide isolated from the plant have been reported as the antidiabetic constituents of the plant (Akah et al., 2002). Also, allicin has been isolated from garlic as a powerful bactericidal and antitumour agent (Weisberger and Pansky, 1957; Lewis and

Table 3

Index of performance of medicinal plants used by the indigenes of Akwa Ibom State

Botanical name	Abscess	Aneamia	Aphrodisiac	Asthma	Bleeding	Boil	Bruise	Burns	Cancer	Catarrh	Chest pain	Chickenpox	Cholera	Conjunctivitis	Convulsion	Cough	Diabetes	Diarrhoea	Digestive
Abrus precatorius	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Acalypha fimbriata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Achyranthes aspera	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Adansonia digitata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Adenostemma mauritianum	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0
Aframomum melegueta	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	2	0	0	0
Afrofittonia silvestris	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Alchornea cordifolia	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Alchornea laxiflora	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Allium cepa	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
Allium sativum	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0
Alstonia boonei	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Anacardium occidentale	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Anchomanes difformis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Anthocleista djalonensis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Anthonotha macrophylla	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Artocarpus communis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Aspilia africana	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Baphia nitida	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Borreria verticillata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cajanus cajan	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Caladium bicolor	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
Carica papava	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0
Carpolobia lutea	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cassia alata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cassia tora	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Chrvsophvllum africanum	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cissus quadrangularis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Citrus aurantifolia	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Citrus limon	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0
Clausena anisata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cleome viscosa	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cnestis ferruginea	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0
Cocos nucifera	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cola acuminata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Combretodendrum macrocarpum	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Combretum micranthum	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0
Combretum racemosum	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Costus afer	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Crassocephalum crepidioides	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0
Croton zambesicus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Cylicodiscus gabunensis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cymbopogon citratus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Dacryodes edulis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Dacryodes klaineana	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Daniellia ogea	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Dennettia tripetala	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Distemonanthus benthamianus	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0
Dracaena arborea	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0
Elaeis guineensis	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0
Eramomastax polysperma	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Eugenia uniflora	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Eupatorium odoratum	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Euphorbia heterophylla	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Euphorbia hirta	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Fagara macrophylla	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0
Fleurya aestuans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 3 (Continued)
-----------	------------

Botanical name	Abscess	Aneamia	Aphrodisiac	Asthma	Bleeding	Boil	Bruise	Burns	Cancer	Catarrh	Chest pain	Chickenpox	Cholera	Conjunctivitis	Convulsion	Cough	Diabetes	Diarrhoea	Digestive
Garcinia cola	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	2	0	0	0
Glycine max	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Gnetum africanum	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0
Gongronema latifolium	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0
Gossypium hirsutium	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Guarea thompsonii	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Heinsia crinita	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Heliotronium indicum	0	0	Õ	0	0	2	0	0	0	0	õ	0	0	0	0	õ	õ	0	0
Hippocratea africana	ů 0	Ő	0	Ő	Ő	0	0	0	0	0	0	0	0	0	0	Ő	0	0	Ő
Homalium letestui	0	Ő	0	ů 0	0 0	Ő	0	0	0	0	0 0	0	0	0	ů 0	0	0	0	Ő
Icacina trichantha	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Inomoga involucrata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ivora coccinea	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
latropha curcas	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0
Justicia insularis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Lasianthara Africana	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lonchocarnus cyanascans	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
Maasabatma bartari	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Maasabatma dusanii	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Maesoboirya ausenii Malaataana aanaa midalianaan	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Maivasirum coromanaeitanum Manaifana in diaa	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mangijera inaica	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Maninot escuenta	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0
Melanthera scanaens	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Microaesmis puberula	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Milletia aboensis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Monodora myristica	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Musa paradisiaca	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Musa sapientum	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Newbouldia laevis	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0
Nauclea latifolia	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ocimum gratissimum	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Palisota hirsute	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pentaclethra macrophylla	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Persea americana	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Phyllanthus amarus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pterocarpus mildbraedii	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Randia acuminata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Randia longiflora	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rauwolfia vomitoria	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ricinus communis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Saccharum officinarum	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sacoglottis gabonensis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Setaria anceps	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sida acuta	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
Solanum melongena	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0
Solanum torvum	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Solenostemon monostachyus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Spondias mombin	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Symphonia globulifera	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0
Synsepalum dulcificum	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Telfairia occidentalis	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Tetrapleura tetraptera	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
Tridax procumbens	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Uvaria chamae	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Vernonia amygdalina	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0
Vernonia conferta	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Zingiber officinale	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0
Total no. of citation	372	384	88	810	838	964	275	217	634	710	1199	163	186	655	227	2970	4157	1248	268

A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Abrus preculorius	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Acaiypna jimbriata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0
Achyranthes aspera	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Adansonia digitata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0
Adenostemma mauritianum	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0
Aframomum melegueta	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Afrofittonia silvestris	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0
Alchornea cordifolia	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Alchornea laxiflora	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Allium cena	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Allium satiyum	Ő	0	0	Ô	ů 0	0	1	0	0	0	° 2	ů 0	0	0	0	0	Ő	0	0	Ő
Alitum salivum	0	0	0	0	0	0	1	0	0	0	2	0	0	0	0	2	0	0	0	0
Alsionia boonei	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0
Anacardium occidentale	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0
Anchomanes difformis	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
Anthocleista djalonensis	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	2	0	0	0	0
Anthonotha macrophylla	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Artocarpus communis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Aspilia africana	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Baphia nitida	0	0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	0	0	0
Borreria verticillata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cajanus cajan	Ő	0	0	0	0	Ő	Ő	0	Ő	0	0	Ő	0	0	0	Ő	Ő	Ő	0	0
Caladium bicolor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Carica papaya	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Carpolobia lutea	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cassia alata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cassia tora	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Chrysophyllum africanum	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cissus quadrangularis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Citrus aurantifolia	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Citrus limon	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Clausana anisata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0
Clasma viscosa	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0
Creome Viscosa	0	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0
Cnestis ferruginea	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cocos nucifera	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Cola acuminata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Combretodendrum macrocarpum	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Combretum micranthum	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Combretum racemosum	Ő	0	0	0	0	Ő	Ő	0	2	0	0	Ő	0	0	Ő	Ő	Ő	Ő	0	0
Control afan	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0
Costus ujer	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0
crepidioides	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0
Croton zambesicus	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
Cylicodiscus gabunensis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0
Cymbopogon citrates	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0
Dacryodes edulis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0
Dacryodes klaineana	0	õ	0	0	0	õ	0	Ő	0	õ	Õ	0	0	0	0	0	õ	0	0	0
Daniellia ogea	Ő	0	0	Ő	Ő	Ő	0	0	0	0	ů 0	Ő	Ő	Ő	0	3	Ő	0	0	Ő
Dannettia tripetala	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Dennetita inipetata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Distemonanthus benthamianus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Dracaena arborea	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0
Elaeis guineensis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Eramomastar polysparma	0	Õ	õ	õ	õ	0	0 0	õ	0	ů.	0	0	0	0	0	0 0	Ő	0 0	0	õ
Eramonusius poryspermu	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0
Eugenia unijiora	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0
Eupatorium oaoratum	U	0	0	0	0	0	0	0	0	U	0	0	0	0	0	3	0	0	0	0
Eupnorbia heterophylla	0	0	0	0	0	0	0	0	0	0	U	0	U	U	0	0	0	0	0	0
Euphorbia hirta	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Fagara macrophylla	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0

K.K. Ajibesin et al. / Journal of Ethnopharmacology 115 (2008) 387-408

Table 3 (Continued)

Botanical name	Dysentery	Dysmenorrhoea	Ear pus	Fibroid	Fracture	Galactagogue	General debility	Gonorrhoea	Haemorrhoid	Hepatitis	Hypertension	Infertility	Itching condition	Jaundice	Laxative	Malaria	Measles	Mental illness	Oral hygiene	Oral rehydration therapy
Fleurya aestuans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Garcinia cola	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Glycine max	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0
Gnetum africanum	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
Gongronema latifolium	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Gossypium hirsutium	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0
Guarea thompsonii	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Heinsia crinita	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0
Heliotropium indicum	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hippocratea africana	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	2	0	0	0	0
Homalium letestui	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0
Icacina trichantha	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0
Ipomoea involucrata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0
Ixora coccinea	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0
Jatropha curcas	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
Justicia insularis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0
Lasianthera Africana	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lonchocarpus cyanescens	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Maesobotrya barteri	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Maesobotrva dusenii	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0
Malvastrum	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
coromandelianum																				
Mangifera indica	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0
Manihot esculenta	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Melanthera scandens	0	3	Õ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Microdesmis puberula	0	0	Õ	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0
Milletia aboensis	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	2	0	0
Monodora mvristica	0	0	Ő	0	0	0	0	0	0	0	0	0	õ	0	0	0	0	0	0	0
Musa paradisiaca	0	0	Ő	0	0	0	0	0	0	0	0	0	õ	0	0	0	3	0	0	0
Musa sapientum	0	0	Ő	0	0	0	0	0	0	0	0	0	õ	0	0	0	0	0	0	0
Newbouldia laevis	0	2	0	õ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nauclea latifolia	0	0	0	Ő	0	0	0	0	0	Ő	0	Ő	Ő	0	Ő	3	0	0	0	0
Ocimum gratissimum	0	0	0	Ő	0	0	0	0	2	Ő	0	Ő	Ő	0	Ő	0	0	0	0	0
Palisota hirsute	0	0	0	Ő	0	0	0	3	0	0	0	0	0	Ő	0	0	0	0	0	0
Pentaclethra macrophylla	0	0	0	Ő	0	0	0	0	0	0	1	Ő	0	0	0	0	0	0	0	0
Persea americana	0	0	0	Ő	0	0	0	0	0	Ő	3	Ő	Ő	0	Ő	0	0	0	0	0
Phyllanthus amarus	0	0	0	Ő	0	0	0	0	0	Ő	0	Ő	Ő	0	Ő	3	0	0	0	0
Pterocarpus mildbraedii	0	0	0	Ő	0	0	0	0	0	Ő	0	Ő	Ő	0	Ő	0	0	0	0	0
Randia acuminata	0	0	0	0 0	0	0	0	0	0	0 0	0	0	0	0	ů 0	0	0	0	3	0
Randia longiflora	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0
Rauwolfia vomitoria	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0
Ricinus communis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0
Saccharum officinarum	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0
Sacoalottis aabonensis	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Setaria ancens	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sida acuta	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Solanum malongona	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Solanum torsum	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Solanostamon monostachuus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0
Spondias mombin	2	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
Symphonia alebulifara	<u>_</u>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sympnonia giobuiijera Synsanalum dulcificum	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0
Telfairia occidentalis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totraplaura totrantaria	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Teirapieura tetraptera	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Truax procumbens	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0
Uvaria chamae Venuenia enuendeline	0	0	0	0	0	0	0	0	1	0	0	0	1	1	0	0	0	0	0	0
vernonia amygaalina	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	U	0
vernonia conferta	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0
Total no. of citation	1450	974	158	195	182	132	65	2925	2810	98	2660	205	118	300	1993	4194	1758	1196	2971	582

K.K. Ajibesin et al. / Journal of Ethnopharmacology 115 (2008) 387–408

400

Abrus presstorius	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	02
Acabuba fimbriata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	105
A chaman the common and	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	215
Achyranines aspera	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	515
Adansonia aigitata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	108
Adenostemma mauritianum	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	208
Aframomum melegueta	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,125
Afrofittonia silvestris	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	652
Alchornea cordifolia	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	822
Alchornea laxiflora	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	58
Allium cepa	0	0	2	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	598
Allium sativum	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1,795
Alstonia boonei	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	69
Anacardium occidentale	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	131
Anchomanes difformis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	579
Anthocleista djalonensis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	544
Anthonotha macrophylla	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	110
Artocarpus communis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	215
Aspilia africana	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	640
Banhia nitida	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.527
Borreria verticillata	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	108
Caianus caian	Õ	0	0	0	3	õ	0	Õ	õ	0	0	0	Õ	õ	õ	0	0	Õ	156
Caladium bicolor	Ő	Ő	Ő	Ő	0	2	Ő	Ő	Ő	0	0	Ő	0	Ő	Ő	2	Ő	Ő	1 483
Carica papaya	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	850
Carnelehia lutea	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	890
Carpolobia lalea	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	020
Cassia diala	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	930
	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	710
Chrysophyllum africanum	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	/60
Cissus quadrangularis	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	82
Citrus aurantifolia	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	900
Citrus limon	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	713
Clausena anisata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	247
Cleome viscose	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	205
Cnestis ferruginea	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	378
Cocos nucifera	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	582
Cola acuminata	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	395
Combretodendrum macrocarpum	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	209
Combretum micranthum	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	550
Combretum racemosum	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	667
Costus afer	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	283
Crassocephalum crepidioides	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	523
Croton zambesicus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	683
Cylicodiscus gabunensis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	87
Cymbopogon citrates	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	930
Dacryodes edulis	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.044
Dacryodes klaineana	Õ	0	0	3	0	õ	0	Õ	õ	0	0	0	Õ	õ	õ	0	0	Õ	480
Daniellia ogea	0	Ő	0	0	ů 0	0	0	ů 0	ů 0	0	0	Ő	0	Ő	Ő	0	0	0	243
Dannattia trinatala	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	145
Distemonanthus henthamianus	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	332
Distemonaninas bennamanas	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	259
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	175
Eldels guineensis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	173
Eramomastax potysperma	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	00
Eugenia unifiora	0	0	0	2	0	0	0	0	0	0	0	0	0	0	U	0	0	0	192
Eupatorium odoratum	0	0	U	0	U	0	U	0	0	0	0	0	0	0	0	0	0	0	711
Euphorbia heterophylla	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	156
Euphorbia hirta	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	160
Fagara macrophylla	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	476
Fleurya aestuans	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	103
Garcinia cola	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,206
Glycine max	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7,22

Table 3 (Continued)
I aoio D (commuted,	

Botanical name	Pediculosis	Purgative	Rheumatism	Skin disease	Smallpox	Sores	Sore throat	Stomach ache	Stomachupset	Tooth ache	Ulcer	Vermifuge	Waist pain	Weaning agent	Whitlow	Wound	Yaw	Yellow fever	Total no. of citations
Gnetum africanum	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1,123
Gongronema latifolium	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	837
Gossypium hirsutium	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	885
Guarea thompsonii	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	
Heinsia crinita	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,137
Heliotropium indicum	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	337
Hippocratea africana	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	455
Homalium letestui	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	292
Icacina trichantha	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	267
Ipomoea involucrate	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,92
İxora coccinea	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	780
Jatropha curcas	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	355
Justicia insularis	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	185
Lasianthera Africana	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	824
Lonchocarpus cvanescens	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	276
Maesobotrva barteri	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	154
Maesobotrva dusenii	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	413
Malvastrum coromandelianum	0	0	0	0	Õ	0	õ	3	0	0	õ	Õ	0	õ	0	0	õ	0	222
Mangifera indica	0	Ő	0	Ő	Ő	Ő	Ő	0	0	0	Ő	0	Ő	Ő	0	0	0	0	580
Manihot esculenta	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1 178
Malanthara scandans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	76
Miarodasmis pubarula	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	251
Milletia aboansis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	200
Millella aboensis	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	209
Monoaora myrisiica Muun mana dinina al	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	694
Musa paraaisiacai	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	084
Musa sapientum	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	084
Newboulaia laevis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3/8
Nauclea latifolia	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	194
Ocimum gratissimum	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	1,518
Palisota hirsute	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	208
Pentaclethra macrophylla	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	240
Persea Americana	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	234
Phyllanthus amarus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	122
Pterocarpus mildbraedii	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	174
Randia acuminata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	930
Randia longiflora	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	930
Rauwolfia vomitoria	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	927
Ricinus communis	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	1,467
Saccharum officinarum	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	802
Sacoglottis gabonensis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	72
Setaria anceps	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,95
Sida acuta	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	658
Solanum melongena	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6,50
Solanum torvum	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	97
Solenostemon monostachyus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	54
Spondias mombin	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,150
Symphonia globulifera	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	159
Synsepalum dulcificum	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	215
Telfairia occidentalis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	384
Tetrapleura tetraptera	0	0	0	2	0	õ	0	õ	0	0	õ	0	õ	õ	0	0	õ	0	688
Tridax procumbens	0	0	0	3	0	0	0	0	0	0	0	0	õ	õ	0	0	0	0	602
Uvaria chamae	0	0	0	0	0	0	0	0	0	0	0	0	õ	0	0	0	0	0	521
Vernonia anvadalina	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1 018
Vernonia amygaalina Vernonia conferta	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,010
Zingihan affain 1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	2 072
Total no. of citation	81	156	632	7126	156	999	703	1 2667	175	266	1130	721	300	201	472	1243	89	215	58.663

Table 4
Use of medicinal plants outside Akwa Ibom State

Plant species	Ailments	Country (source)
Abrus precatorius	Conjunctivitis, malaria, laxative, cough, insomnia	Nig (1, 3, 4)
Acalypha fimbriata	Skin rashes, emetic	Nig (1)
Achyranthes aspera	Expectorant, astringent, diuretic, fever, arthritis Diarrhoea, dysentery Haemorrhoids Cold Itch, headache	Nig (18, 4, 48) Gab (13), Gha (47) CD (21) SA (26) DRC (27)
Adansonia digitata	Malaria, diarrhoea, scorpion sting, snake bite Tooth ache	Nig (3, 4, 38) Tan (23)
Alchornea cordifolia	Ringworm, dysentery, skin disease, snakebite, muscle pain, malaria Tooth ache Respiratory and urinary ailments Leprosy, skin infections, venereal disease	Nig (1, 24, 4, 38) DRC (14), Cam (15) Gha (45) W/A (17)
Allium cepa	Diabetes, tetanus, haemorrhoids, carminative, scorpion sting, impotence, hypertension	Nig (1, 38, 4)
Allium sativum	Skin disease, ulcer, hypertension, pneumonia, respiratory problem, anthelminthic, diabetes, asthma	Nig (1, 38, 4)
Alstonia boonei	Malaria Intestinal helminthiasis, snakebite, lactation failure Jaundice, sores, fracture Skin trouble	Nig (18), Gha (19) Cam (15), Lib (22) CD (21, 20) Sen (8, 11)
Anacardium occidentale	Malaria, asthma, diabetes, arthritis, dysentery, tooth ache Yaw Urethral discharge Leprosy, ulcer	Nig (3, 4, 1), Sen (10, 11) Gha (6) Con (12) Gab (13)
Anchomanes difformis	Psychosis, convulsion Purgative, oedema, difficult childbirth, jaundice Lactogen	Nig (24) CD (21) Gab (13), Sen (11)
Anthocleista djalonensis	Stomach ache, skin disease, infertility, malaria	Nig (3, 1)
Aspilia africana	Bleeding, headache, skin disease, eye problem Tuberculosis	Nig (2, 18, 1), Gha (5) Tan (23)
Baphia nitida	Skin disease, fever, laxative Dysentery, venereal disease, ringworm	Nig (1) W/A (17)
Borreria verticillata	Skin disease Leprosy, febrifuge	Nig (16), Gam (16) Sen (16)
Caladium bicolor	Pain, oedema, boil, abscess, ulcer, sedative	Gab (12)
Carica papaya	Malaria, arthritis, diabetes, syphilis, gonorrhoea Headache, rabies Purgative, hernia, venereal disease, abortifacient, enema, pile Dysentery, blennorrhoea Anthelminthic, syphilis Tooth ache	Nig (3, 2, 4) Sen (10, 11, 7) CD (20), Gha (5) Gab (13), Con (12) E/A (26) Cam (15)
Carpolobia lutea	Arthritis Evacuant, fever, headache, leprosy, snakebite, venereal disease, wounds Aphrodisiac	Nig (45) W/A (17) Gab (13)
Cassia alata	Skin disease, laxative, asthma, gonorrhoea	Nig (3, 1, 4)
Cissus quadrangularis	Scabies	DRC (14)
Citrus aurantifolia	Hepatitis, arthritis, rheumatism, malaria, stomach ache, gonorrhoea Dysentery, fever, headache, ophthalmia, oral infection, vomiting	Nig (38, 3, 4) W/A (17)
Citrus limon	Scabies	Cam (15)
Clausena anisata	Evacuant, headache, respiratory ailment, tooth ache, pesticides	Ken, S/A, W/A (17)
Cnestis ferruginea	Laxative, skin disease, tooth cleaning agent, tooth ache	Nig (2, 18, 25), Gha (6), S/L (17)

Table 4 (Continued)

Plant species	Ailments	Country (source)
	Bronchitis, abortifacient, purgative Eye trouble	DRC (43), Con (12) Sen (7)
Cocos nucifera	Laxative, scabies, tooth ache	Nig (3)
Cola acuminata	Hypertension, male infertility Stimulant, appetite depressant	Nig (38) W/A (17)
Combretum micranthum	Prophylaxis against illness Syphilis, fever, female sterility	Nig (2), W/A (42) Sen (9, 42, 8)
Combretum racemosum	Roundworm, tooth ache Internal parasites Vermifuge Dysentery, haemorrhoids, cough, tuberculosis	Gam (35) Sen (7,11) CD (32) Con (12)
Costus afer	Laxative, arthritis Cough, scabies	Nig (3) Cam (15)
Crassocephalum crepidioides	Stomach upset Epilepsy	Con (12) Tan (23)
Cylicodiscus gabunensis	Malaria	Cam (15)
Cymbopogon citrates	Malaria, diarrhoea	Nig (3, 1, 4, 16)
Dacryodes edulis	Parasitic skin disease Wound Anaemia, mouthwash, dysentery, leprosy	Nig (29) Gab (13) Con (12), Cam (36)
Dracaena arborea	Abdominal pain Abscess Skin eruption, tooth ache, catarrh	Nig (1) Cam (15) DRC (14)
Elaeis guineensis	Vermifuge Lumbago, malaria, scabies, hernia, headache	Nig (4) Cam (15)
Euginea uniflora	Malaria	Nig (39)
Eupatorium odoratum	Wounds, diabetes, malaria, skin rashes	Nig (24, 1, 4)
Euphobia hirta	Asthma Laxative, sore, boils	Nig (16) Gha (16)
Fagara macrophyla	Diarrhoea, dysentery	Ang (16)
Garcinia cola	Conjunctivitis Gonorrhoea, inflammation, tooth ache, cancer Venereal disease, arthritis, cough Lumbago Oral hygiene	Lib (16) Nig (3, 1, 17) Nig (3, 4) Cam (15) CD, Gha (44)
Glycine max	Dysentery, tooth ache, aphrodisiac, tumour, respiratory ailments Laxative	W/A (17) Nig (4)
Gnetum africanum	Colic Laxative	S/L (17) Gha (6)
Gossypium hirsutium	Dysentery, emmenagogue	Nig (4)
Guarea thompsonii	Gonorrhoea, abscess	Cam (15)
Heinsia crinita	Hernia, neck injury	Nig (38)
Heliotropium indicum	Fever, cancer, convulsion Dermatoses Gonorrhoea	Nig (1), CDR (34) Sen (11), Tan (23) Gam (35), CD (21, 20)
Hippocratea africana	Skin infection Oedemas	Nig (25) Sen (9, 11)
Ipomoea involucrate	Asthma, fever, rheumatism Jaundice Oedema, eye infection, dysmenorrhoea, headache	Nig (18, 1) CD (21) Con (12)
Ixora coccinea	Gonorrhoea	Nig (3)
Jatropa curcas	Skin disease, oral thrush, gonorrhoea, epilepsy	Nig (1, 3, 24, 4)

Table 4 (Continued)

Plant species	Ailments	Country (source)
Justicia insularis	Tooth ache Diarrhoea	Cam (15) DRC (41)
Lasianthera africana	Chewing sponge	Gha (17)
Lonchocarpus cyanescens	Skin disease, yaw, arthritis, snakebite Insecticide	Nig (1, 3, 4) WA (17)
Mangifera indica	Diarrhoea, dysentery, laxative, malaria, venereal disease, arthritis, migraine, skin disease	Nig (18,3,1,24,4), Sen (9–11), CD (21, 20, 32), Con (12)
Manihot esculenta	Arthritis, gonorrhoea, burns, ulcer Lumbago	Nig (3, 4) Cam (15)
Melanthera scandens	Eye trouble, chicken pox, purgative Cuts, wounds	CD (20, 21, 32) E/A (26)
Microdesmis puberula	Malaria, cough, sexual dysfunction	Cam (15)
Monodora myristica	Haemorrhoids, stomach ache, febrile pain, eye trouble, sores Migraine	CD (21), Con (12) Gab (30, 13)
Musa paradisiacal	Measles, hypertension, aphrodisiac, diarrhoea Tooth ache Intestinal helminthiasis	Nig (1, 4) S/A (17) Cam (15)
Newbouldia laevis	Skin disease, conjunctivitis, migraine, cough, dysentery, diarrhoea, breast cancer	Nig (1, 18, 4), Con (12), CD (32) Gha (31)
	Rheumatism, oedema Snakebite, leprosy	Sen (7, 11) Gui (33)
Nauclea latiflora	Malaria, dysmenorrhoea, tooth ache, vermifuge	Nig (3, 24, 38)
Ocimum gratissimum	Diarrhoea, pile, abdominal discomfort, diabetes, convulsion Cough	Nig (38, 4) Cam (15)
Palisota hirsuta	Dysentery, stomach ache Skin disease, cough, oedema	Nig (2) CD, Gha (21, 20, 5)
Persea Americana	Wounds, urethral discharge Hypertension, insomnia, aphrodisiac, heart tonic	Gab (30, 13) Nig (1, 38)
Phyllanthus amarus	Malaria Pile, hypertension, diabetes, kidney stone, fever	DRC (14) Nig (1, 4)
Randia acuminata	Oral hygiene	Cam (44)
Rauwolfia vomitora	Mental illness, convulsion, jaundice Epilepsy, sedative Aphrodisiac Headache	Nig (3, 46), Gha (47), Con (12) CD (32) Gha (6) Cam (15)
Ricinus communis	Skin disease, cancer, stomach trouble, laxative Tooth ache	Nig (1, 4, 3) S/A (17)
Saccharum officinarum	Jaundice Vermifuge	Nig (4), Cam (15) DRC (14)
Sida acuta	Malaria, labour, stomach ache, catarrh, venereal disease, whitlow, breast cancer Headache	Nig (1, 24, 3, 4) Cam (15)
Spondias mombin	Gonorrhoea, aphrodisiac, fibroid, fever, diarrhoea, cough, sore throat Stomach trouble Tooth ache Dysentery	Nig (1, 2, 4), CD (21) Gui (28) Con (12) Sen (9)
Solanum melongena	Diabetes, tonic, laxative, sedative	Nig (38, 4)
Solanum torvum	Malaria	Cam (15)
Solenostemon monostachys	Measles, dizziness	Nig (1)
Synsepalum dulcificum	Sweetener, diabetes	W/A (17)
Tetrapleura tetraptera	Convulsion, arthritis. Venereal disease, lumbago	Nig (3), Cam (15)

Table 4 (Continued)

Plant species	Ailments	Country (source)
Tridax procumbens	Fever, typhoid, eye problem	Nig (4)
	Bleeding	Mad (37)
Uvaria chamae	Amenorrhoea	Sen (9)
	Abdominal pain	Gha (6)
	Jaundice	CD (21)
	Purgative, fever	S/L (29, 19)
Vernonia amygdalina	Oral hygiene, itch, parasitic infection, ringworm	Nig (1, 18, 4, 3, 29)
	Fever, laxative, cough, abortifacient	Gha (5, 6), Gui (28)
	Diuretic, skin infection, evacuant	W/A (17)
	Malaria	Cam (15)
	Female sterility, impotence	Sen (10, 11)
	Schistosomiasis	S/A (26)
Vernonia conferta	Lactation, jaundice, wound	Cam (15), CD (20)
	Laxative	S/L (29, 19)
	Cough, intestinal and urinogenital ailments, vermifuge	Con (12)
	Diarrhoea, constipation	Gha (6)
	Sores	Gab (30, 13)
Zingiber officinale	Body pain, stomach trouble, hypertension, nausea, fever, pneumonia, liver disease	Nig (1, 38, 4)

Nig, Nigeria; Gha, Ghana; Sen, Senegal; Con, Congo Brazzaville; Gab, Gabon; CD, Côte D'Ivoire; Lib, Liberia; Tan, Tanzania; DRC, Democratic Republic of Congo; S/L, Sierra Leone; Gui, Guinea; Gam, Gambia; Cam, Cameroon; Ken, Kenya; Mad, Madagascar; Ang, Angola; W/A, West Africa; E/A, East Africa; S/A, South Africa. 1, Nigeria Natural Medicine Development Agency (NNMDA) (2006); 2, Ainslie (1937); 3, Iwu (1986); 4, Mann et al. (2003); 5, Irvine (1930); 6, Irvine (1961); 7, Kerharo and Adam (1962); 8, Kerharo and Adam (1963); 9, Kerharo and Adam (1964a); 10, Kerharo and Adam (1964b); 11, Kerharo and Adam (1974); 12, Bouquet (1969); 13, Walker and Silans (1961); 14, Chifundera (2001); 15, Betti (2004); 16, Sofowora (1993); 17, Lewis and Elvin-Lewis (1977); 18, Oliver (1960); 19, Taylor-Smith (1966); 20, Kerharo and Bouquet (1950); 21, Bouquet and Debray (1974); 22, Voorhoeve (1965); 23, Haerdi et al. (1964); 24, Ekpendu et al. (2000); 25, Malcolm and Sofowora (1969); 26, Watt and Breyer-Brandwijk (1962); 27, Hauman (1951); 28, Pobéguin (1912); 29, Dalziel (1937); 30, Walker (1953); 31, Hartwell (1968); 32, Adjanohoun and Aké Assi (1972); 33, Schnell (1950); 34, Taton (1971); 35, Williams (1907); 36, Ayuk et al. (1999); 37, Debray et al. (1971); 38, ASICUMPON (2005); 39, Adebajo (1988); 40, Kamdem et al. (1986); 41, Tona et al. (1999); 42, Aubréville (1950); 43, Troupin (1952); 44, Cunningham (1993); 45, Iwu and Anyanwu (1982); 46, Adegoke et al. (1968); 47, Ayensu (1978); 48, Iwu (1993).

Elvin-Lewis, 1977). The use of garlic for stomach ache may be attributed to the bactericidal effect of allicin.

Spondias mombin (Anacardiaceae) is frequently used for dysentery (Ip=2) and haemorrhoids (Ip=1). The presence of tannins in the plant (Bouquet and Debray, 1974; Gill, 1992) explains its use against dysentery and haemorrhoids. In fact, Bruneton (1999) reported that most plant species used to treat diarrhoea, dysentery and similar ailments contain tannins, the compounds of which are already known to have antidiarrhoea and antiseptic properties. Thus, tannins in some plants such as *Anacardium occidentale*, *Psidium guajava* and *Mangifera indica* have been found effective against dysentery, diarrhoea and haemorrhoids (Burkill, 1985; Anonyme, 1990, 1993). Elligatannins showing antiviral properties have also been identified in the plant (Corthout et al., 1991).

Fagara macrophylla (Rutaceae) was recorded for use against gonorrhoea (Ip=1), haemorrhoids (Ip=1), boil (Ip=2) and tooth ache (Ip=1). This plant and other Fagara species are widely used as chewing sticks to treat tooth ache (Lewis and Elvin-Lewis, 1977). The root contains an alkaloid, artarine which shows bactericidal activity (Irvine, 1961). This may explain its action as tooth ache remedy. This compound may also show anti-sickle cell property (Sofowora and Isaac, 1971). A compound, 8-methoxydihydronitidine also isolated from Fagara macrophylla is reported as anticancer agent (Lewis and Elvin-Lewis, 1977). *Uvaria chamae* (Annonaceae) is used for four ailments, diarrhoea (Ip = 1), jaundice (Ip = 1), haemorrhoids (Ip = 1) and bleeding (Ip = 1). The properties of the plant have been found to be astringent and stypic which explain its use for diarrhoea and haemorrhoids (Burkill, 1985). The detection of tannins in this plant (Kerharo and Adam, 1974) lends further credence to these uses. However, traces of alkaloids have been found in the root of the plant (Taylor-Smith, 1966; Adegoke et al., 1968; Kerharo and Adam, 1974).

Carpolobia lutea (Polygalaceae) was frequently cited as aphrodisiac (Ip=3). Three triterpene saponins have been identified from the plant but found to show anticancer property (Mitaine-Offer et al., 2002).

Zingiber officinale (zingiberaceae) was mentioned for the treatment of cough (Ip=1), catarrh (Ip=1) and stomach ache (Ip=1). Ginger (Zingiber officinale) contains volatile oil the principal constituents of which are β -phellandrene, cineole, bisaboline, zingiberene and zingiberol (Trease and Evans, 1989). The pungent, stimulant and carminative properties of ginger are attributed to gingerol, an oleoresin from which zingerone and shogaol have been isolated (Claus et al., 1971). This clearly explains the use of ginger for the foregoing ailments. However, ginger is also reported as beneficial in the treatment of rheumatism and muscular disorder (Srivastava and Mustafa, 1992).

The survey has shown the various medicinal plants employed in the traditional medical practice of Akwa Ibom State of Nigeria. Such practice has contributed vastly to the healthcare delivery system of the State. This is so because over 70% of Nigerians rely on traditional medicine for health care delivery and, in particular, the medicinal plants highlighted in this survey, most especially the ones where uses are peculiar to the State, may constitute additional source of drugs for the nation. In fact, it can lead to a source of absolutely new drugs. However, the standardization of the method of preparation and mode of administration to ensure precise dosage is recommended.

With the current interest shown by the government in incorporating traditional and Western medical practice into the healthcare delivery system, this survey provides a veritable source of information for practitioners of traditional medicine as well as medicinal plant researchers.

Acknowledgements

The authors acknowledge the contributions of the herbalists in the State, particularly Chief Monday Udo Inyang of Ikono, Chief Udo Akpan Ekoon of Etinan and Chief E.E. Uko of Obio Etoi, the village head of Uyo. The contributions of Mr. Etefia, a staff in the department who evinced a profound knowledge in local medicinal plants, and Mr. Okon Abia-Williams, an herbalist in the department are also appreciated.

References

- Adebajo, A.C., 1988. Some pharmacognostical investigation of the leaves of *Eugenia uniflora* L. Masters of Science Thesis. Obafemi Awolowo University, Ile-Ife, Nigeria, pp. 1–15.
- Adegoke, E.A., Akinsanya, A., Naqvi, S.H.Z., 1968. Studies of Nigerian medicinal plants. 1. A preliminary survey of plants alkaloids. Journal of West African Science Association 13, 13–33.
- Adjanohoun, E., Aké Assi, L., 1972. Plantes Pharmaceutiques de Côte D'Ivoire. Abidjan, Ivory Coast, pp. 20–97.
- Ainslie, J.R., 1937. A List of Plants Used in Medicine in Nigeria. Imperial Forestry Institute Oxford University, UK, pp. 1–37.
- Ajibesin, K.K., Bala, D.N., Ekpo, B.A.J., Adesanya, S.A., 2002. Toxicity of some implicated poisons in Nigerian ethnomedicine to rats. Nigerian Journal of Natural Products and Medicines 6, 7–9.
- Akah, P.A., Okoli, C.O., Nwafor, S.V., 2002. Phytotherapy in the management of diabetes mellitus. Journal of Natural Remedies 2, 1–10.
- Akah, P.A., Okafor, C.L., 1992. Blood sugar lowering effect of Vernonia amygdalina Del, in an experimental rabbit model. Phytotherapy Research 6, 171–173.
- Anonyme, 1990. Fiche espece sur *Psidium guajava* L. Revue de médecines et Pharmacopée Africaines 4, 65–75.
- Anonyme, 1993. Fiche espece sur Mangifera indica L. Revue de médecines et Pharmacopée Africaines 6, 119–124.
- Aubréville, A., 1950. Flore Forestière Soudano-guinéene, A.O.F.-Cameroun-A.E.F., Paris Société d'Editions Geographiques Maritimes et Coloniales, p. 114.
- Ayensu, E.S., 1978. Medicinal Plants of West Africa. Reference Publications, Algonac, pp. 1–330.
- Ayuk, E.T., Duguma, B., Franzel, S., Kengué, J., Mollet, M., Tiki-Manga, T., Zekeng, P., 1999. Uses, management and economic potential of *Dacryodes edulis* (Burseraceae) in the humid lowlands of Cameroon. Economic Botany 53, 292–301.
- Bannerman, R.H.O., Cummins, A., Djukanovic, V., Koko, U., 1975. Indigenous system of medicine: medicine in India. In: Djukanovic, V., Mach, E.P. (Eds.), Alternative Approaches to Meeting Basic Health Needs in Developing Countries. WHO, Geneva, pp. 84–91.

- Bannerman, R.H.O., 1979. Acupuncture: the WHO View. World Health Magazine, pp. 24–29.
- Betti, J.L., 2004. An ethnobotanical study of medicinal plants among the Baka Pygmies in the Dja Biosphere Reserve, Cameroon. African Study Monographs 25, 1–27.
- Betti, J.L., 2002. Usages populaires des plantes galactogènes dans l'arrondissement de Mintom au sud de la Reserve de biosphère du Dja (Cameroon). Soma 2, 35–46.
- Bouquet, A., 1969. Féticheurs et médicines traditionalles du Congo (Brazzaville). Mémoire, O.R.S.T.O.M., pp. 36–100.
- Bouquet, A., Debray, M., 1974. Plantes médicinales de la Côte D'Ivoire. Trav. Doc. O.R.S.T.O.M., pp. 13–76.
- Bruneton, J., 1999. Pharmacognosy, Phytochemistry, Medicinal Plants, 2nd ed. Lavoisier Publishing, France, pp. 1–1119.
- Burkill, H.M., 1985. The Useful Plants of West Tropical Africa, vol. 1, 2nd ed. Royal Botanic Gardens, Kew, UK, Family A–D, pp. 1–960.
- Carney, J.R., Krenisky, J.M., Williamson, R.T., Luo, J., Carlson, T.J., Hsu, V.L., Moswa, J.L., 1999. Maprouneacin, a new daphnane diterpenoid with potent antihyperglycemic activity from *Maprounea africana*. Journal of Natural Products 62, 345–347.
- Chifundera, K., 2001. Contribution to the Inventory of Medicinal Plants from the Bushi Area, South Kivu Province, Democratic Republic of Congo. Fitoterapia 72, 351–368.
- Claus, E.P., Varro, E.T., Brady, L.R., 1971. Pharmacognosy. Henry Kimpton, London, pp. 213–214.
- Corthout, J., Pieters, L.A., Claeys, M., Vanden-Berge, D.A., Vlietinck, A.J., 1991. Antiviral ellagitannins from *Spondias mombin*. Phytochemistry 30, 1129–1130.
- Cunningham, A.B., 1993. African medicinal plants: setting priorities, the interface between conservation and primary healthcare. People and Plants Working Paper, UNESCO, pp. 1–50.
- Dalziel, J.M., 1937. Flora of West Tropical Africa. Crown Agents for Overseas Government, pp. 1–296.
- Debray, M., Jacquemin, H., Razafindramboa, R., 1971. Contribution à l'inventaire des plantes médicinales de Madagascar. Travaux Documentes. O.R.S.T.O.M., No. 8, Paris, p. 18.
- Ekpendu, T.O.E., Anyogo, P., Ityough, D., Akpa, F., 2000. Nigerian ethnomedicine and medicinal plant flora: the Benue experience. Part 3. Nigerian Journal of Natural Products and Medicines 4, 13–22.
- Erasto, P., Grierson, D.S., Afolayan, A.J., 2006. Bioactive sesquiterpene lactones from the leaves of *V. amygdalina*. Journal of Ethnopharmacology 106, 117–120.
- Etukudo, I., 2000. Forests: Our Divine Treasure. Dorand Publishers, Nigeria, pp. 156–180.
- Etukudo, I., 2003. Ethnobotany: Conventional and Traditional Uses of Plants. The Verdict Press, Nigeria, pp. 83–134.
- Fabricant, D.S., Farnsworth, N.R., 2001. The value of plants used in traditional medicine for drug discovery. Environmental Health Perspectives (Supplement) 109, 69–75.
- Farnsworth, N.R., Segelman, A.B., 1971. Hypoglycemic plants. Tile Till 57, 52–55.
- Farnsworth, N.R., Akerele, O., Bingel, A.S., Soejarto, D.D., Guo, Z., 1985. Medicinal plants in therapy. Bulletin WHO 63, 965–981.
- Gill, L.S., 1992. Ethnomedicinal Uses of Plants in Nigeria. University of Benin Press, Benin City, Nigeria, pp. 1–276.
- Goodson, A., 1932. Echitamine in *Alstonia* barks. Journal of Chemical Society, 2626–2630.
- Haerdi, F., Kerharo, F.J., Adam, J.G., 1964. Afrikanische Heilpflanzen: plantes médicinales africaines, Basel, pp. 87–186.
- Hartwell, J.L., 1968. Plants used against cancer. A survey. Lloydia 31, 71-170.
- Hauman, L., 1951. Fam. 24, Amaranthaceae. In: Boutique, R. (Ed.), Flore du Congo-Belge et du Ruanda-Urundi, Spermatophytes 2. I.É.A.C., Brussels, pp. 53–55.
- Hutchinson, J., Dalziel, J.M., 1954. Flora of West Tropical Africa, vol. I. Crown Agents for Overseas Government and Administration, London, pp. 17–295.
- Hutchinson, J., Dalziel, J.M., 1958. Flora of West Tropical Africa, vol. I. Crown Agents for Overseas Government and Administration, London, pp. 299– 763.

- Hutchinson, J., Dalziel, J.M., 1968. Flora of West Tropical Africa, vol. III. Crown Agents for Overseas Government and Administration, London, pp. 1–276.
- Irvine, F.R., 1930. Woody Plants of Ghana. Oxford University Press, London, pp. 42–431.
- Irvine, F.R., 1961. Woody Plants of Ghana. Oxford University Press, London, pp. 1–868.
- Isong, E.U., Idiong, U.I., 1997. Comparative studies on the nutritional and toxic composition of three varieties of *Lasianthera africana*. Plant Foods for Human Nutrition 51, 79–84.
- Iwu, M.M., Anyanwu, B.N., 1982. Phytotherapeutic profile of Nigerian herbs 1: anti-inflammatory and anti-arthritic agents. Journal of Ethnopharmacology 6, 263–274.
- Iwu, M.M., 1986. African Ethnomedicine. UPS, Nsukka, Nigeria, pp. 34-78.
- Iwu, M.M., 1993. Handbook of African Medicinal Plants. CRC Press, Boca Raton, pp. 1–435.
- Kamdem, L., Messi, H.M., Ndongo, N.A., Mbi, C., Njikam, A.P., Elobo, S., 1986. Ethnobotanical investigations carried out in Mouloundou (Eastern Province) and Zoetele (Southern Province). Revue des Sciences et de la Technologie (Health Science Serie) 3, 59–68.
- Keay, R.W.J., Onochie, C.F.A., Stanfield, D.P., 1964. Nigerian Trees, vols. I–II. Federal Department of Forest Research, Ibadan, Nigeria, pp. 14–334.
- Kerharo, J., Adam, J.G., 1962. Premier inventaire des plantes médicinales et toxiques de la Casamance (Senegal). Annales Pharmaceutiques Françaises 20, 76–841.
- Kerharo, J., Adam, J.G., 1963. Deuxieme inventaire des plantes médicinales et toxiques de la Casamance (Senegal). Annales Pharmaceutiques Françaises 21, 773–792.
- Kerharo, J., Adam, J.G., 1964a. Plantes médicinales et toxiques des Peul et des Toucouleur du Senegal. Journal d'Agriculture des tropiques et de Botanic appliquée 11, 384–599.
- Kerharo, J., Adam, J.G., 1964b. In: Haerdi, F., Kerharo, F.J., Adam, J.G. (Eds.), Les plantes médicinales et toxiques et magiques des Niominka et des Socé des Iles du Saloum (Senegal). Afrikanisches Heilpflanzen: Plantes Médicinales Africaines, Basel, pp. 292–325.
- Kerharo, J., Adam, J.G., 1974. La Pharmacopée Sénégalaise traditionalles. Plantes médicinales et toxiques. Vigot Fréres, Paris, pp. 119–353.
- Kerharo, J., Bouquet, A., 1950. Plantes médicinales et toxiques de la Côte D'Ivoire—Haute-Volta. Vigot Fréres, Paris, pp. 168–240.
- Klayman, D.L., 1993. Artemisia annua: from weed to respectable antimalarial plant. In: Kinghorn, A.D., Belandrin, M.F. (Eds.), Human Medicinal Agents from Plants. American Chemical Society, pp. 242–255.
- Lewis, W.H., Elvin-Lewis, M.P., 1977. Medical Botany. John Wiley and Sons, New York, pp. 1–515.
- Malcolm, S.A., Sofowora, E.A., 1969. Antimicrobial activity of selected Nigerian folk remedies and their constituent plants. Lloydia 32, 512–517.
- Mann, A., Gbate, M., Umar, A.N., 2003. Medicinal and Economic Plants of Nupeland. Jude Evans Books and Publications, Nigeria, pp. 1–276.
- Mitaine-Offer, A., Miyamoto, T., Khan, I.K., Delaude, C., Lacaille-Dubois, M., 2002. Three new triterpene saponins from two species of *Carpolobia*. Journal of Natural Products 65, 553–557.
- Nigerian Natural Medicine Development Agency (NNMDA), 2006. Medicinal Plants of Nigeria: South-West Nigeria, vol. 1. NNMDA, Lagos, Nigeria, pp. 1–117.
- Nwanjo, H.U., 2005. Efficacy of aqueous leaf extract of *Vernonia amygdalina* on plasma lipoprotein and oxidative status in diabetic rat models. Nigerian Journal of Physiological Sciences 20, 39–42.
- Odoemena, C.S., Essien, J.P., 1995. Antibacterial activity of the root extract of *Telfairia occidentalis*. West African Journal of Biological and Applied Chemistry 40, 29–32.
- Okokon, J.E., Ofodum, K.C., Ajibesin, K.K., Bala, D., Gamaniel, K.S., 2005. Pharmacological screening and evaluation of antiplasmodial activity of Cro-

ton zambesicus against Plasmodium berghei berghei infection in mice. Indian Journal of Pharmacology 37, 243–246.

- Oliver, B., 1960. Medicinal Plants in Nigeria. Nigerian College of Arts, Science and Technology, pp. 1–138.
- Petters, S.W., Iwok, E.R., Uya, O.E., 1994. Akwa Ibom State: The land of Promise—A Compendium. Gabumo Press, Nigeria, pp. 19–244.
- Pobéguin, H., 1912. Plantes médicinales de la Guinée. Paris, pp. 14, 65.
- Rastogi, R.P., Dhawan, B.N., 1982. Research on medicinal plants at the Central Drug Research Institute, Lucknow (India). Indian Journal of Medicinal Research (Supplement) 76, 27–45.
- Samuelsson, G., 1992. Sesquiterpenes and diterpenes with pharmacological and biological activities. Acta Pharmaceutical Fennica 101, 33–34.
- Schnell, R., 1950. Manuels Quest-africains. I. La forêt dense. Introduction à l'étude botanique de la region forestière d'Afrique occidentale, Paris, p. 248.
- Sofowora, E.A., Isaac, W.A., 1971. Reverse of sickling and crenation of erythrocytes by root extract of *Fagara zanthoxyloides*. Lloydia 34, 383–385.
- Sofowora, A., 1993. Medicinal Plants and Traditional Medicine in Africa. Spectrum Books Ltd., Ibadan, Nigeria, pp. 1–289.
- Srivastava, K.C., Mustafa, T., 1992. Ginger (*Zingiber officinale*) in rheumatism and musculoskeletal disorders. Medical Hypotheses 39, 342–348.
- Stanfield, D.P., Lowe, J., 1987. The Flora of Nigerian Grasses, 2nd ed. Ibadan University Press, Ibadan, Nigeria, pp. 203–267.
- Talapatra, S.K., Sarkar, A.C., Chakrabarti, S., Talapatra, B., 1989. Randiflorin, a new pentacyclic triterpene lactone and Randilongin, a new rho-coumaric acid ester from *Randia longiflora* Lamk: molecular conformation of Randiflorin. Journal of Indian Chemical Society 66, 694–698.
- Talbot, P.A., 1969. The Peoples of Southern Nigeria, vol. IV. Frank Cass and Co. Ltd., London, p. 10.
- Taton, A., 1971. Boraginaceae. In: Bamps, P. (Ed.), Flore du Congo, Rwanda et du Burundi, Spermatophytes, I.N.É.A.C., Brussels, pp. 29–30.
- Taylor-Smith, R., 1966. Investigations on plants of West Africa. III. Phytochemical studies of some plants of Sierra Leone. Bulletin de l'Institut Français d'Afrique Noire A 28, 538–541.
- The Association for Scientific Identification, Conservation, Utilization of Medicinal Plants of Nigeria, Their Uses (ASICUMPON), 2005. Checlist of Medicinal Plants of Nigeria and Their Uses. Jamoe and Trinity-Biz Publishers, Enugu, Nigeria, pp. 1–135.
- Tona, L., Kambu, K., Mesia, k., Cimanga, K., Aspers, S., De Bruyne, T., Pieters, L., Totte, J., 1999. Biological screening of traditional preparations from some medicinal plants used as antidiarrhoeal in Kinshasa, Congo. Phytomedicine 6, 59–66.
- Trease, G.E., Evans, W.C., 1989. Pharmacognosy, 13th ed. Bailliere Tindall, p. 618.
- Troupin, G., 1952. Fam. 49, Connaraceae. In: Boutique, R. (Ed.), Flore du Congo-Belge et du Ruanda-Urundi, Spermatophytes 3. I.N.É.A.C., Brussels, pp. 118–120.
- Udo, E.A., 1984. Who Are The Ibibio? FEP Publishers, Nigeria, p. 107.
- Voorhoeve, A.G., 1965. Liberian High Forest Trees. Wageningen, p. 59.
- Walker, A.R., 1953. Usages pharmaceutiques des plantes spontanées du Gabon. I, vol. 5. Bulletin Institut d'Etudes Centrafricain n.s, pp. 19–40.
- Walker, A.R., Silans, R., 1961. Les plantes utiles du Gabon. Paul Lechevalier, Paris, pp. 19–132.
- Watt, J.M., Breyer-Brandwijk, M.G., 1962. The medicinal and poisonous plants of Southern and Eastern Africa, 2nd ed. Livinstone, pp. 13–296.
- Weisberger, A.S., Pansky, J., 1957. Tumour-inhibiting effects derived from an active principle of garlic (*Allium sativum*). Science 126, 1112–1114.
- Willaman, J.J., Li, H.-L., 1970. Alkaloids bearing plants and their contained alkaloids. Lloydia 33, 1.
- Williams, F.N., 1907. Florula Gambica. Une contribution à la flore de la colonie britannique. Bulletin de l'Herbier Boissier Serie 2, 7, pp. 81–96, 373.